U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Planimetric (Photogrammetric)
Field No. Ph-29 (47) Office No. T-8627

LOCALITY
State Alaska
General locality Arctic Coast
Locality Barter Island

CHIEF OF PARTY
Hubert A. Paton, Chief of Field Party
L.C. Lands, Div. of Photogrammetry, Wash., D.C.

LIBRARY & ARCHIVES
DATE JULY 19, 1955
Summary to Accompany T-8627

Planimetric project Ph-29(47) consists of 69 maps, scale 1:20,000, - 26 in Part I (Barter Island westward to Jones Islands) and 43 in Part II (Jones Islands to Point Barrow). The project covers that part of the Arctic Ocean coastal area (Beaufort Sea) which extends from 143° 10' to 156° 30' west longitude.

This project was designed as surveys for new nautical charts at a much larger scale than the present regional chart, and to furnish bases to the U. S. Geological Survey for projected topographic maps.

T-8627 is one of the Part I group. It includes the eastern half of Arey Island and Arey Lagoon; Barter Island; Bernard Harbor; Akvakniakvik Lagoon; and Martin Point.

* * * * * * * * * * *

When all the map manuscripts in this project have been reviewed, smooth-drafted, reproduced, and registered, a Completion Report will be filed in the Bureau Archives. This report will describe the project as a whole, and will list the materials received with a statement of their disposition.
Project No. (II): Ph-29(47) Quadrangle Name (IV):

Field Office (II): Graphic Compilation Section
Photogrammetric Office (III): Div. of Photogrammetry
Office in Charge: L. C. Lanier
Washington 25, D. C.

Instructions dated (II) (III): Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III): Radial Plot (including trimetrogon radial plot)

Manuscript Scale (III): 1:20,000 Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III): 2.000 and 1.000

Date received in Washington Office (IV): 7-19-49 Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date: Date registered (IV): 15 June, 1955

Publication Scale (IV):

Geographic Datum (III): Barter Island 1948

The difference between Barter Island 1948 Datum and preliminary N.A. 1927 Datum in Lat. ~m/minus 42 m. and Long. ~m/minus 66 m.

Vertical Datum (III): M.H.W. Mean sea level except as follows:
Elevations shown as (26) refer to mean high water
Elevations shown as (4) refer to sounding datum i.e., mean low water or mean lower low water

Reference Station (III): Barter Astro Azimuth, 1948 6-7630-Alaska Description 1947

Lat.: 70° 04' 39.328" Long.: 143° 36' 57.786"

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

Field Inspection by (II): C. A. J. Pauwx Date: Summer 1948

Planes table contouring by (III): Date:

Completion Surveys by (II): Date:

Mean High Water Location (III) (State date and method of location):

Nine-Lens Photographs Date: 7/29/47
Trinomeron Photographs 6/23/47
Hydro Survey Sheet No. H-7658 1948
Air Force single lens
Projection and Grids ruled by (IV): W. E. Ward
Date: 7/29/47 6/23/47 12/29/48
Projection and Grids checked by (IV): W. E. Ward

Control plotted by (III): S. G. Blankenbaker

Control checked by (III): C. Hanavich

Radial Plot or Stereoscopic Radial Plot - S.G.B. (see CompilatPom)
Control extension by (III): Report for T-8624) - Jan. 1949
Trinomeron Plot - L.M. 6 (see compilation
Report for T-8628) Apr. 49
Stereoscopic Instrument compilation (III):
Radial Plot N.S. Schutz
E.H.R.
Contours L.M.G. (Trinomeron)

Manuscript delineated by (III): E.H. Ramey (nine-lens)
L.M. Gazik (trinomeron) Date: 7/13/59
N.S. Schutz (single lens) 7-13-59

Photogrammetric Office Review by (III): Stanley J. Hathorn Date: 5/8/50

Elevations on Manuscript Date:

Form T-Page 3
Camera (kind or source) (III):

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<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
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<td>7-29-47</td>
<td>15:00</td>
<td>1:20,000</td>
<td>negligible (see below)</td>
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For kinesigraph photographs used see T-8678

Predicted Tide (III)

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<tr>
<th>Reference Station: Kodiak</th>
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<td>Subordinate Station: Plazman Island</td>
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<table>
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<tr>
<td>Date: 10-15-51</td>
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<tr>
<td>Final Drafting by (IV): J. Drzy</td>
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<tr>
<td>Date: 3-18-55</td>
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<tr>
<td>Drafting verified for reproduction by (IV):</td>
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<tr>
<td>Date:</td>
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<tr>
<td>Proof Edit by (IV):</td>
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<tr>
<td>Date:</td>
</tr>
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</table>

Land Area (Sq. Statute Miles) (III): 4.6
Shoreline (More than 200 meters to opposite shore) (III):
Shoreline (Less than 200 meters to opposite shore) (III):
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 10 - Recovered: Identified: 2eker
Number of BMs searched for (II): Recovered: Identified:
Number of Recoverable Photo Stations established (III):
Number of Temporary Photo Hydro Stations established (III):

Remarks:
Four unmarked topographic points were located by transit fixes and identified for photo control.
* An additional station, Mars 1948, was office identified.

Air Force Photos Acc # 1968

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Scale</th>
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</thead>
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<td>98-104</td>
<td>18 June 1950</td>
<td>1:10,000</td>
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<td>120-125</td>
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</tr>
<tr>
<td>165-170</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Form T-Page 4
Descriptive Report: T-8627

Project: Ph 29(47) Arctic Coast, Alaska

Location: Barter Island

Scale: 1:20,000

A series of five shoreline sheets of which this is the fourth covers the Arctic Coast from Camden Bay to the mouth of the Jago River, more specifically, from longitude 144° 55' West to 145° 10' West. This series is also identified with C.S. 320.

The field party, under Hubert A. Paton, Chief of Party, furnished photo identification and description of triangulation stations, photo inspection of shoreline, marsh limits and other necessary data for compilation in this office.

This manuscript, T-8627, and its accompanying descriptive report, are filed in the Division of Photogrammetry.
FIELD INSPECTION REPORT
Map Manuscript T-8626
Project Ph-29(47)

Refer to:

REPORT OF PHOTOGRAPH INSPECTION
Barter Island Alaska
Project CS-129
1948

Hubert A. Paton, Chief of Party
26 and 27 Control and Radial Plot

Information under these headings for this manuscript are included in the compilation report for T-8624 for the nine-lens plot and in the compilation report for T-8628 for the trimetrogon plot.

28 Detailing

Shoreline indicated by dashed line was compiled from trimetrogon photographs taken June 23, 1947. Reduction of detail to 1:20,000 from 1:10,000 scale trimetrogon verticals was accomplished by projector. For detailing from the oblique photographs an oblique sketchmaster was used. Use of the sketchmaster does not afford the same accuracy as compilation directly from vertical photographs. Snow and ice, piled up to and over the shoreline necessitated considerable generalization in delineation of shoreline from the trimetrogon photographs.

The greater part of the shoreline, and other topographic features indicated, were detailed from nine-lens photographs taken July 25, 1947 when the snow and ice line had disappeared and therefore the major portion of the manuscript is believed to be within the standard map accuracy.

The smaller ponds and ditches were so numerous throughout this region that many were omitted or generalized.

The land area of this manuscript is tundra of varying degrees of wetness. In most instances there was difficulty in ascertaining marsh limits. Generally, lake beds remaining after seasonal inundation, comprised many of the marsh areas.

Comparison between the nine-lens photographs, which were taken one month later than the trimetrogon photographs, show that many marsh and wet areas became dry in a short time as the arctic summer advances. Many of the marsh areas, now indicated as such on the manuscript, may similarly become dry as the warm season advances still further.

30 Mean High Water Line

The shoreline was delineated directly from the nine-lens photographs by photo-inspection and interpretation in the office holding to radial plot positions. Also refer to comments on shoreline in item 28 above.

32 Details Offshore

Snow and ice obscured any offshore details that may have been otherwise visible on the trimetrogon photographs. No other details were visible in the areas covered by the nine-lens photographs than those indicated in the compilation.
33. Classified Information
The manuscript has been designated "Restricted" accordingly.

34. Landmarks and Aids to Navigation
None (see form 567, attached)

44. Comparison with Existing Topographic Surveys

No topographic surveys at this or comparable scales are available in this area.

45. Nautical Chart Comparison

No nautical chart of this area is available for comparison.

Only limited comparison with H-7657 was possible. After considering a discrepancy between the soundings of H-7657 and the shoreline in the vicinity of triangulation station AREY, 1948, it was decided that the position of the shoreline detailed was stronger and no changes were made in the manuscript.

Submitted by:

L. M. Gazik

Approved by:

L. C. Lande
SUPPLEMENTAL COMPILATION REPORT T-8627

Detail was revised where field inspection of the photographs was incomplete, as recommended by personnel familiar with this area.

The delineation of detail was extended inshore to the limit of the photographic coverage, changing T-8627 from a Shoreline Manuscript to a Planimetric Manuscript.

\[Signature\]

N. S. Schultz

\[Signature\]

G. E. Willey

5 June 1950
SUPPLEMENTAL COMPILATION REPORT T-9627 & T-8628

Detail was revised on the islands and spits lying off shore. Detail on Manning Point was also revised. These areas had been delineated from 1947 trimetrogon photography and were shown with an approximate mean high water line.

A radial plot was laid using 1950 single lens Air Force photos. The positions agreed very well with the old work. There were minor changes in detail. The shoreline was shown as solid instead of approximate. On Manning Point there was a slight disagreement in position and there was no photo coverage for a small area of this point. Therefore, the position of this area was made to agree with the radial plot position and shown as approximate.

The northern shore of Barter Island agreed with the previous work and was shown with a solid line. Several buildings and a road were added on the northern shore. There was no photo coverage for a portion of the eastern shore of Barter Island and there were no changes made in that area.

Neil S. Shultz
15 July 1954
21. **Area Covered:**

This radial plot covers the western half of T-11039 and T-8628 and part of T-8627.

22. **Method:**

Since the photography was at a scale of 1:10,000, the manuscripts were ruled at 1:10,000 scale on four sheets with polyconic projections.

The photographs were taken by the Air Force in June 1950. They are single lens contact prints on double weight matte paper at a scale of 1:10,000. The following photographs were used:

<table>
<thead>
<tr>
<th>98-104</th>
<th>185-187</th>
<th>289-293</th>
</tr>
</thead>
<tbody>
<tr>
<td>168-125</td>
<td>268-274</td>
<td>307-315</td>
</tr>
<tr>
<td>165-182</td>
<td>280-282</td>
<td>320-337</td>
</tr>
</tbody>
</table>

The purpose of this radial plot was to take off from the plot used on the eastern half of T-11039 and bridge to T-8628, then continue from there to bridge to control on T-8627. Due to clouds on the nine lens photographs used in the eastern half of T-11039, and poor coverage by the single lens, and also two different years of photography, it was not possible to identify common pass points. It was impossible to tie into common pass points on T-8628 for the same reasons. It was possible to identify only two control points on T-8628 and two on T-8627. There were four common points of detail identified on T-8627. Since there were so few control points it was necessary to bridge quite a distance.

Closure and adjustment to control was good with the exception of one station (Eskimo House, 1952).

23. **Adequacy of Control:**

The following control stations were field identified and held in the plot:

- **POUND, 1948 (Sub Sta D, 1948)**
- **GRAVES, 1952 (Sub Sta )** (Sub Sta A, 1952)
- **GRIFFIN, 1952 (Sub Sta A)**
- **SPIT, 1948 (Sub Sta A)**
- **COWNIN, 1952 (Sub Sta A)**
- **RUIN, 1948 (Sub Sta A)**
- **AMBER, 1952 (Sub Sta A)**
- **NEAR, 1948 (Sub Sta A)**
- **TAP, 1952 (Sub Sta A)**

**HV-009** and **HV-010** were located by a tie to **GRAVES**. **HV-007** and **HV-008** were located by a tie to **AMBER**. **LOG** is a hydro station and was located by a sextant fix from **COWNIN**, **AMBER**, **POUND** and **GRAVES**. All the stations held very good.
The only point that did not hold was ESKIMO HOUSE. This was located by sextant fix from GRIFFIN, GRAVES, AMBER, and TAP. The radial plot point was 3.0 MM SE of the plotted point. Since TAP (550 meters north west of ESKIMO HOUSE) held, it was assumed that ESKIMO HOUSE was misidentified.

25. Photography:

There is no satisfactory index of the Air Force photography and the coverage was inadequate. The flights did not fall inland enough to cover the complete shoreline. There was more control inland which could not be used due to lack of coverage. A few flights had too much side lap while some had no side lap. The photos just east of GRIFFIN POINT were too dark and cloudy to use. The flight of photos along the shoreline of T-8628 were also too cloudy to use.

Submitted By:
Neil S. Shultz

July 1954
PHOTOGRAMMETRIC OFFICE REVIEW
T. 8627

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

CONTROL STATIONS
5. Horizontal control stations of third-order or higher accuracy ②
6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) ②
7. Photo hydro stations ②
8. Bench marks ②
9. Plotting of sextant fixes ②
10. Photogrammetric plot report ②
11. Detail points ②

ALONGSHORE AREAS
(Nautical Chart Data)
12. Shoreline ②
13. Low-water line ②
14. Rocks, shoals, etc. ②
15. Bridges ②
16. Aids to navigation ②
17. Landmarks ②
18. Other alongshore physical features ②
19. Other alongshore cultural features ②

PHYSICAL FEATURES
20. Water features ②
21. Natural ground cover ②
22. Planetary contours ②
23. Stereoscopic instrument contours ②
24. Contours in general ②
25. Spot elevations ②
26. Other physical features ②

CULTURAL FEATURES
27. Roads ②
28. Buildings ②
29. Railroads ②
30. Other cultural features ②

BOUNDARIES
31. Boundary lines ②
32. Public land lines ②

MISCELLANEOUS
33. Geographic names ②
34. Junctions ②
35. Legibility of the manuscript ②
36. Discrepancy overlay ②
37. Descriptive Report ②
38. Field inspection photographs ②
39. Forms ②
40. Reviewer ②

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:
5. The following triangulation stations were added to the manuscript:
   - Ice, 1948
   - Barter Radio Mast, Tallest, 1948
   - Barter Flagpole, 1948
   - Barter Radio Mast, West Shack, 1948

   The manuscript designation of the following unmarked stations, located by transit-fixes, for control of
   the radial plot was changed from triangulation to topographic point and labeled "(n.m.n.d.)":
   - Lake, 1948
   - Near, 1948
   - Penn, 1948
   - Ruin, 1948

   Positions of all triangulation stations on the manuscript agree with preliminary GP's contained in
   "Alaska No. 89 - Barter Island Area, Alaska".

17. Three landmarks shown on Arctic Coast Chart No. 8, corrected to 3/13/50, were added to the manuscript
    and reported on Form 567. Form 524 was submitted for two not located as triangulation.

    A Form 567 recommending two of these landmarks was found in the Chart Division, and that information
    was transferred to the Form 567 included in this report. No record recommending the other landmark
    could be found. Lewis V. Evans, member of the hydrographic party, stated he had no knowledge of
    it having been recommended. However, it has been included since it appears on the above chart.

25. Unadjusted trigonometric elevations of monumented triangulation stations determined at the time of
    horizontal observations, and shown with the preliminary GP's, were added to the manuscript.
<table>
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<tr>
<th>Name on Survey</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
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Names underlined in red are approved: 6-31-50
L. Healy
Re-checked 10-16-51. L. H.
# Nonfloating Aids or Landmarks for Charts

**TO BE CHARTED**

*Strike out one*

**Arctic Shore Party**

30 Nov 1948

I recommend that the following objects which have been inspected from seaward to determine their value as landmarks be charted on the charts indicated.

The positions given have been checked after listing by [Horace G. Conerly](#)  

[Hubert A. Paton](#)

**Chief of Party**

<table>
<thead>
<tr>
<th>STATE</th>
<th>Charting Name</th>
<th>Description</th>
<th>Signal Name</th>
<th>Latitude</th>
<th>Longitude</th>
<th>Datum</th>
<th>Method of Location and Survey NO.</th>
<th>Date of Location</th>
<th>Chart Division, June 1950</th>
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<td>Tripod (Log)</td>
<td>approx. 25' high</td>
<td>ICE</td>
<td>70 08</td>
<td>1752.5</td>
<td>143 34 359.5</td>
<td>Barter T. &amp; Triang. 1948</td>
<td>May</td>
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<td>House (W. Gable)</td>
<td>larger of 2 large Bldgs.</td>
<td>DON</td>
<td>70 07</td>
<td>1836.0</td>
<td>143 42 254.0</td>
<td>HS 7658</td>
<td>June</td>
<td>Sextant 1948</td>
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</tr>
</tbody>
</table>


**Tripod high, with 3" x 3" center pole**  

**BBB**  

70 07 786.0 143 51 594.0  

**HS 7658**

*Not recommended by field parties (marked according to low Evans), but shown on Arctic Coast Chart No. 7, corrected to 3/4/50, Position scaled from smooth sheet by S. J. H. 7/11/50.*

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and **nonfloating aids to navigation**, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual.
Control to be smooth-drafted on T-8627

**Triangulation**
- Mars, 1948
- Arey, 1948
- Frigid, 1948
- Barter Radio Mast, tallest, 1948
- Barter Radio Mast, west shack, 1948
- Barter Flagpole, 1948
- Tripod, Log, 25 ft. high
  - (Ice, 1948)
- Kakto, 1948
- Barter Astro, 1948
- Barter Astro, Azimuth, 1948

**Topographic**
- Tripod, 1948, 15 ft. high
- House, (West Gable) 1948
### Nautical Charts Branch

**Survey No. 8627**

**Record of Application to Charts**

<table>
<thead>
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<th>Date</th>
<th>Chart</th>
<th>Cartographer</th>
<th>Remarks</th>
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<td>Thru Area Chart 98 Before</td>
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<td></td>
<td></td>
<td>After Verification and Review</td>
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<td>3/50</td>
<td>9402</td>
<td>Burgos</td>
<td>Applied Thru Chart 98 Direct</td>
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<td>Before After Verification and Review</td>
</tr>
<tr>
<td>Sep/55</td>
<td>9403</td>
<td>Wesselius</td>
<td>Before After Verification and Review Thru Chart 9416</td>
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</table>

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.
61. Only a cursory review was made of the compilation from trimetrogon photographs (1:10,000) covering Bernard Spit, Manning Point and the northeastern half of Barter Island. Inspection and measurements on the photographs reveal that the northern shoreline between 14:3° 37' to 43' follows the top of the bluff which is steep to vertical. Though ice and snow are abundant along the shoreline, it does not fully conceal indication of a beach along the whole northern shore. Stream outlets indicate that this beach may be as much as fifty feet wide in some places. Lacking proof, the shoreline was not altered during review.

62. Comparison with Registered Topographic Surveys:

No previous topographic maps have been made of this area.

63. Comparison with Maps of Other Agencies:

USGS Barter Island, Recon., 1:250,000, 1951

The C&GS compilations were used for this quadrangle.

64. Comparison with Contemporary Hydrographic Surveys:

H-7658 1:20,000, 1948

The northern shoreline of Barter Island west spit was altered to conform to the hydrographic survey. This complies with office instructions of December 14, 1949 for the series of map manuscripts west of this area. *

65. Comparison with Nautical Charts:

94:00 1:1,587,870 (at 70°) ed. May 1947, cor., Nov. 1950

The small scale of the chart precludes more than an indication of agreement in general form.

66. Accuracy:

*Except for the trimetrogon delineation in the northeastern part of the mapped area, the shoreline and interior meets the standard for Arctic charting.

67. Geographic Names:

The names in this project are from "Geographic Names Report, Project CS-320" submitted by the hydrographic party (no signature) September, 1948. Supplementary and additional names, same area,
were submitted October, 1949.

Reviewed By: Lena T. Stevens

* Additional Review, 29 July 1954

64. Comparison with Contemporary Hydrographic Surveys:

The end of this spit was again revised, using the USAF June, 1950 photographs (Nos. 94 & 95VV). (See also paragraph 1, Supplemental Compilation Report).

66. Accuracy:

All the shoreline in the original trimetrogon area now meets the standard for Arctic charting, except a short length on the east shore of Akvakniavik Lagoon and a portion of Manning Point. These portions were not covered by the 1950 photographs.

L.T.S.

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15 July 1955