

TP-00689



TP-00689

NOAA FORM 76-35

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline

Job No. CM-7219 Map No. TP-00689

Classification No. Edition No. 1

Field Edited Map

LOCALITY

State North Carolina

General Locality Cape Fear to Cape Lookout

Locality Shackleford Point

1973 TO 1975

REGISTRY IN ARCHIVES

DATE

| | | | |
|--|--|---|--|
| NOAA FORM 76-36A (3-72) U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN. | | TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED | SURVEY TP. <u>00689</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>Final (F.E.)</u> JOB <u>PH. CM-7219</u> |
| DESCRIPTIVE REPORT - DATA RECORD | | LAST PRECEDING MAP EDITION | |
| PHOTOGRAMMETRIC OFFICE Coastal Mapping Division, Norfolk, VA | | TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED | |
| OFFICER-IN-CHARGE Jeffrey G. Carlen, Cdr. | | JOB PH. _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__ | |
| I. INSTRUCTIONS DATED | | | |
| 1. OFFICE | | 2. FIELD | |
| Oct. 9, 1974 Compilation Sept. 26, 1974 Aerotriangulation | | Sept. 21, 1973 | |
| II. DATUMS | | | |
| 1. HORIZONTAL: <input checked="" type="checkbox"/> 1927 NORTH AMERICAN | | OTHER (Specify) | |
| 2. VERTICAL: <input checked="" type="checkbox"/> MEAN HIGH-WATER <input checked="" type="checkbox"/> MEAN LOW-WATER <input type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL | | OTHER (Specify) | |
| 3. MAP PROJECTION Polyconic | | 4. GRID(S) STATE ZONE North Carolina | |
| 5. SCALE 1:20,000 | | STATE ZONE | |
| III. HISTORY OF OFFICE OPERATIONS | | | |
| OPERATIONS | | NAME | DATE |
| 1. AEROTRIANGULATION BY METHOD: Analytic LANDMARKS AND AIDS BY | | D. Norman | Sept. 1974 |
| 2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Coradomat CHECKED BY | | Keating Keating | Sept. 1974 Sept. 1974 |
| 3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY INSTRUMENT: Wild B-8 CONTOURS BY SCALE: 1:30,000 CHECKED BY | | R.R. White L.O. Neterer NA NA | Oct. 1974 Oct. 1974 |
| 4. MANUSCRIPT DELINEATION PLANIMETRY BY Wild B-8 & Graphic CHECKED BY METHOD: Smooth Drafted CONTOURS BY CHECKED BY SCALE: 1:20,000 HYDRO SUPPORT DATA BY CHECKED BY | | J. Desch R.R. White NA NA NA NA | Nov. 1974 Nov. 1974 |
| 5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY | | R.R. White | Nov. 1974 |
| 6. APPLICATION OF FIELD EDIT DATA BY CHECKED BY | | A.L. Shands J.R. Minton | Feb. 1975 May, 1975 |
| 7. COMPILATION SECTION REVIEW BY | | J.R. Minton | May, 1975 |
| 8. FINAL REVIEW BY | | C.H. Bishop | Mar. 1976 |
| 9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY | | | |
| 10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY | | | |
| 11. MAP REGISTERED - COASTAL SURVEY SECTION BY | | R.T. CATDR | ADG 1976 |

| NOAA FORM 76-36B (3-72) | | U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY | | | |
|--|---|--|--------------------|--|------------------|
| TP-00689 | | | | | |
| COMPILATION SOURCES | | | | | |
| 1. COMPILATION PHOTOGRAPHY | | | | | |
| CAMERA(S) Wild RC-10 "C" | | TYPES OF PHOTOGRAPHY LEGEND | | TIME REFERENCE | |
| TIDE STAGE REFERENCE HAMPTON ROADS <input checked="" type="checkbox"/> PREDICTED TIDES Bogue Inlet <input type="checkbox"/> REFERENCE STATION RECORDS <input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY | | (C) COLOR X (P) PANCHROMATIC (I) INFRARED X | | ZONE Eastern <input checked="" type="checkbox"/> STANDARD MERIDIAN 75th <input type="checkbox"/> DAYLIGHT | |
| NUMBER AND TYPE | DATE | TIME | SCALE | STAGE OF TIDE | |
| * 730(C)(I)4686 - 4688 | 13 OCT 73 | 09:45 | 1:60,000 | 2.5 ft. above MLW | |
| ** 730(C)(I)4747 - 4749 | 13 OCT 73 | 14:15 | 1:60,000 | ±0.2 ft. of MLW | |
| ** 730(C)(I)4779 - 4781 | 15 OCT 73 | 11:08 | 1:60,000 | ±0.2 ft. of MHW | |
| REMARKS *Bridge and Compilation photos (predicted tides) **Tide coordinated photos at MHW and MLW based on predicted tides. | | | | | |
| 2. SOURCE OF MEAN HIGH-WATER LINE: | | | | | |
| The mean high water line was compiled graphically from office interpretation of the tide coordinated infrared* photographs listed in 1. above. | | | | | |
| *Based on predicted tides. | | | | | |
| 3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE: | | | | | |
| The mean low water line was compiled graphically from office interpretation of the tide coordinated* infrared photographs listed in 1. above. | | | | | |
| *Based on predicted tides. | | | | | |
| 4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.) | | | | | |
| SURVEY NUMBER | DATE(S) | SURVEY COPY USED | SURVEY NUMBER | DATE(S) | SURVEY COPY USED |
| | | | | | |
| 5. FINAL JUNCTIONS | | | | | |
| NORTH No survey | EAST overlaps into CM-7305, TP-00514 | | SOUTH No survey | WEST TP-00688 | |
| REMARKS | | | | | |

TP-00689

HISTORY OF FIELD OPERATIONS

I. FIELD INSPECTION OPERATION FIELD EDIT OPERATION

| OPERATION | NAME | DATE |
|-------------------------------------|--|------------------|
| 1. CHIEF OF FIELD PARTY | R. Tibbetts | Sept., Oct. 1973 |
| 2. HORIZONTAL CONTROL | RECOVERED BY R. Tibbetts | Sept. Oct. 73 |
| | ESTABLISHED BY None | |
| | PRE-MARKED OR IDENTIFIED BY R. Black | Sept. Oct. 73 |
| 3. VERTICAL CONTROL | RECOVERED BY NA | |
| | ESTABLISHED BY NA | |
| | PRE-MARKED OR IDENTIFIED BY NA | |
| 4. LANDMARKS AND AIDS TO NAVIGATION | RECOVERED (Triangulation Stations) BY R. Tibbetts | Sept. 1973 |
| | LOCATED (Field Methods) BY None | |
| | IDENTIFIED BY R. Black | Sept. 1973 |
| 5. GEOGRAPHIC NAMES INVESTIGATION | TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION | |
| 6. PHOTO INSPECTION | CLARIFICATION OF DETAILS BY | None |
| 7. BOUNDARIES AND LIMITS | SURVEYED OR IDENTIFIED BY | NA |

II. SOURCE DATA

| 1. HORIZONTAL CONTROL IDENTIFIED | | 2. VERTICAL CONTROL IDENTIFIED | |
|----------------------------------|-------------------------------|--------------------------------|---------------------|
| PHOTO NUMBER | STATION NAME | PHOTO NUMBER | STATION DESIGNATION |
| 73C(C)(I)4687 | SAM 3, 1962 | | |
| 73C(C)(I)4686 | CAPE LOOKOUT LIGHTHOUSE, 1886 | | |

3. PHOTO NUMBERS (Clarification of details)
None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

| PHOTO NUMBER | OBJECT NAME | PHOTO NUMBER | OBJECT NAME |
|---------------|-------------------------------|--------------|-------------|
| 73C(C)(I)4686 | CAPE LOOKOUT LIGHTHOUSE, 1886 | | |

5. GEOGRAPHIC NAMES: REPORT NONE

6. BOUNDARY AND LIMITS: REPORT NONE

7. SUPPLEMENTAL MAPS AND PLANS
None

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)
 2 Form 152 CSI card
 2 Form 266 Observation of Sun for Azimuth
 2 Form 269c Computation of Altitude and Time for Azimuth

HISTORY OF FIELD OPERATIONS.

I. FIELD INSPECTION OPERATION FIELD EDIT OPERATION.

| OPERATION | NAME | DATE |
|--|-----------------------|-----------|
| 1. CHIEF OF FIELD PARTY | Robert S. Tibbetts | Jan. 1975 |
| 2. HORIZONTAL CONTROL RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY | Richard E. Kesselring | Jan. 1975 |
| | Richard E. Kesselring | Jan. 1975 |
| | NA | |
| 3. VERTICAL CONTROL RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY | NA | |
| | | |
| | | |
| 4. LANDMARKS AND AIDS TO NAVIGATION RECOVERED (Triangulation Stations) BY LOCATED (Field Methods) BY IDENTIFIED BY | Richard E. Kesselring | Jan. 1975 |
| | Richard E. Kesselring | Jan. 1975 |
| | | |
| 5. GEOGRAPHIC NAMES INVESTIGATION TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE BY <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION | | |
| 6. PHOTO INSPECTION CLARIFICATION OF DETAILS BY | Richard E. Kesselring | Jan. 1975 |
| 7. BOUNDARIES AND LIMITS SURVEYED OR IDENTIFIED BY | NA | |

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED
NA

2. VERTICAL CONTROL IDENTIFIED
NA

| PHOTO NUMBER | STATION NAME | PHOTO NUMBER | STATION DESIGNATION |
|--------------|--------------|--------------|---------------------|
| | | | |

3. PHOTO NUMBERS (Clarification of details)

730(c)4747

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

Located four aids; verified two aids; deleted two landmarks

| PHOTO NUMBER | OBJECT NAME | PHOTO NUMBER | OBJECT NAME |
|--------------|-------------|--------------|-------------|
| | | | |

5. GEOGRAPHIC NAMES: REPORT NONE

6. BOUNDARY AND LIMITS: REPORT NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

2-Form 76-40 Non-floating Aids or Landmarks For Charts

TP-00689
RECORD OF SURVEY USE

| I. MANUSCRIPT COPIES | | | | |
|--|-----------|------------------------------------|---------------------------|---------------|
| COMPILATION STAGES | | | DATE MANUSCRIPT FORWARDED | |
| DATA COMPILED | DATE | REMARKS | MARINE CHARTS | HYDRO SUPPORT |
| Compilation complete pending field edit | NOV. 1974 | Class III Manuscript Superseded | 11/27/74 | 12/2/74 |
| Field edit applied Compilation complete | FEB. 1975 | Class I Manuscript Superseded | 6/3/75 | |
| Final Review | MAR. 1976 | | | |
| | | | | |

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

| NUMBER | CHART LETTER NUMBER ASSIGNED | DATE FORWARDED | REMARKS |
|--------|---------------------------------|-------------------|-------------------------|
| 7 | | June 4, 1975 | Aids for Charts |
| 2 | | June 4, 1975 | Landmarks for Deletion. |
| | | | |
| | | | |
| | | | |
| | | | |

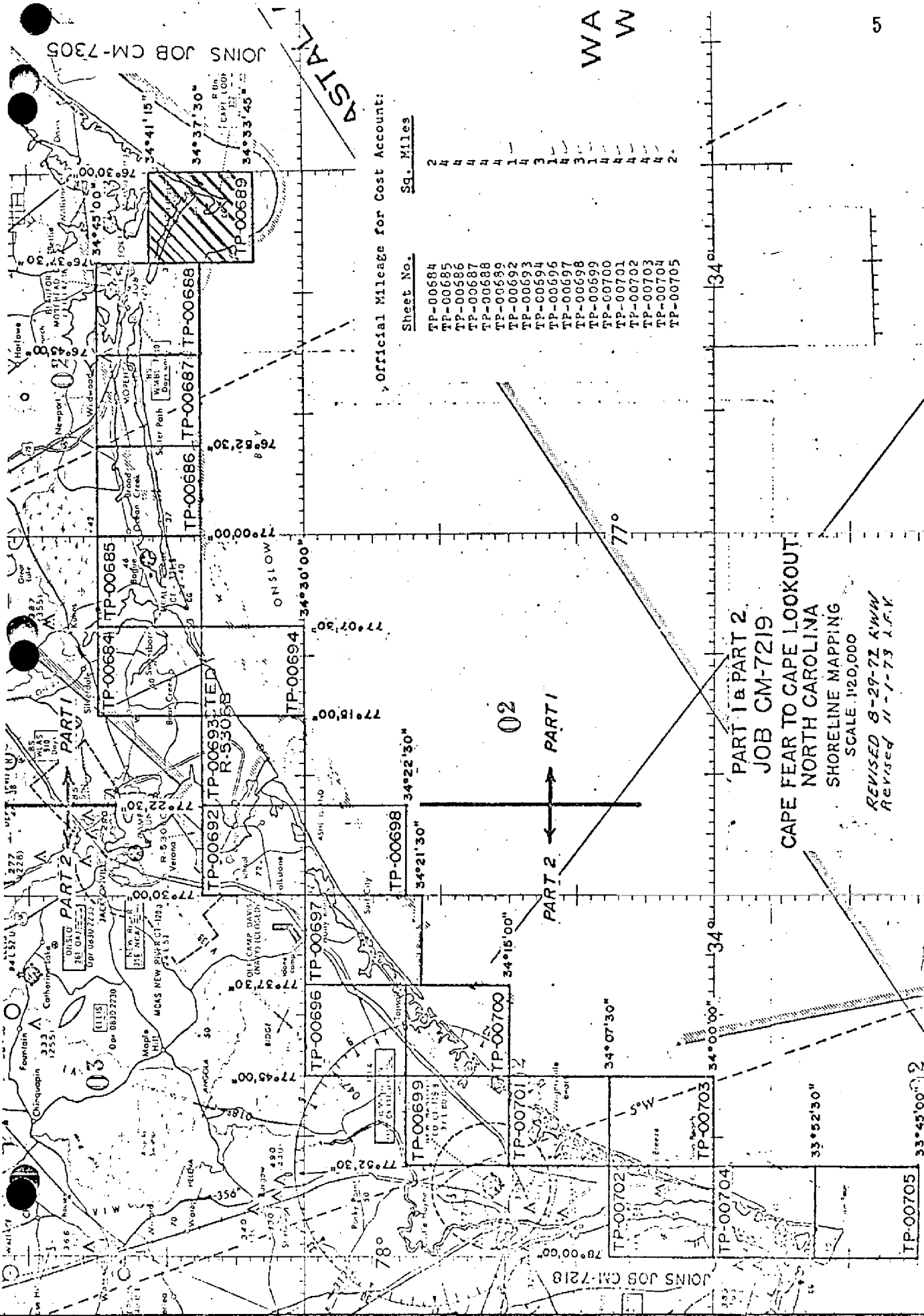
2. REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: June 4, 1975
3. REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

III. FEDERAL RECORDS CENTER DATA

1. BRIDGING PHOTOGRAPHS; DUPLICATE BRIDGING REPORT; COMPUTER READOUTS.
2. CONTROL STATION IDENTIFICATION CARDS; FORM NOS ⁷⁶⁻⁴⁰ ~~167~~ SUBMITTED BY FIELD PARTIES.
3. SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.
ACCOUNT FOR EXCEPTIONS:
4. DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: - _____

IV. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered)

| | | | |
|-------------------|---------------------------------|--------------------------|---|
| SECOND EDITION | SURVEY NUMBER TP - _____ (2) | JOB NUMBER PH - _____ | <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL |
| | DATE OF PHOTOGRAPHY | DATE OF FIELD EDIT | |
| THIRD EDITION | SURVEY NUMBER TP - _____ (3) | JOB NUMBER PH - _____ | <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL |
| | DATE OF PHOTOGRAPHY | DATE OF FIELD EDIT | |
| FOURTH EDITION | SURVEY NUMBER TP - _____ (4) | JOB NUMBER PH - _____ | <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL |
| | DATE OF PHOTOGRAPHY | DATE OF FIELD EDIT | |



JOINS JOB CM-7305

JOINS JOB CM-7218

Official Mileage for Cost Account:

| Sheet No. | Sq. Miles |
|-----------|-----------|
| TP-00684 | 2 |
| TP-00685 | 4 |
| TP-00686 | 4 |
| TP-00687 | 4 |
| TP-00688 | 4 |
| TP-00689 | 4 |
| TP-00692 | 1 |
| TP-00693 | 1 |
| TP-00694 | 3 |
| TP-00696 | 1 |
| TP-00697 | 4 |
| TP-00698 | 3 |
| TP-00699 | 1 |
| TP-00700 | 4 |
| TP-00701 | 4 |
| TP-00702 | 4 |
| TP-00703 | 4 |
| TP-00704 | 4 |
| TP-00705 | 2 |

WA
W

PART 1 & PART 2
 JOB CM-7219
 CAPE FEAR TO CAPE LOOKOUT
 NORTH CAROLINA
 SHORELINE MAPPING
 SCALE 1:20,000
 REVISED 8-29-72 KWW
 REVISED 11-1-73 J.F.V.

SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORTS TP-00684 through TP-00689,

TP-00693 and TP-00694

Project CM-7219 is one of several projects that comprise the Southern Coastal Plains Expedition. It is a 1:20,000 scale shoreline mapping project which contains eighteen maps. They are not standard surveys because compilation was limited to the ocean shoreline and only a limited amount of interior detail. Shoreline of bays, inlets, canals or rivers that may be within the geographic limits of the maps were not delineated. This deviation from written instructions was brought about by verbal instructions telephoned from the Rockville Office to the Chief, Coastal Mapping Section, AMC.

The area covered is from Cape Fear to Cape Lookout, N.C. Because of different times of photography, the area was divided into two parts for bridging and compilation purposes. This summary is for Part I which extends from New River Inlet eastward to Cape Lookout.

The only field work prior to compilation was the recovery and premarking of horizontal control required for bridging.

Bridging was done in the Rockville Office in September, 1974, by analytic triangulation methods, using 1:60,000 scale color infrared photography taken in October, 1973. Points were established for determining ratios of mean high water and mean low water photography.

Compilation was done at the Atlantic Marine Center in October and November, 1974, using the color infrared photographs taken at mean high and mean low water for office interpretation of the mean high water line and mean low water line respectively.

Field edit was done in January, 1975. With the exception of Map TP-00694, edit of the maps discussed in this summary is complete.

The entire area of TP-00694 is part of Camp Lejeune Military Reservation and is used as a bombing and artillery range. The field editor was denied entrance to this prohibited area. All that he could deliver in the way of edit was the east and west limits of the prohibited area and ascertain the absence of landmarks and fixed aids to navigation. Edit of this map is incomplete and the map classification remains Class III.

The original manuscripts were stabilene sheets 7 1/2 minutes in latitude by 7 1/2 minutes in longitude.

A cronaflex positive copy and a negative of each final reviewed map were forwarded for record and registry.

7

Photogrammetric Plot Report
Cape Lookout to Cape Fear
North Carolina
Part 1
Job CM-7219
September 1974

21. Area Covered - This report pertains to 8 sheets between Cape Lookout and the New River in North Carolina. The sheets are TP-00684 thru TP-00689, TP-00693 and TP-00694.
22. Method - Two strips of 1:60,000 scale color IR photography were bridged by analytic aerotriangulation methods and adjusted to ground in the North Carolina State Plane Coordinate System. Points were established for determining ratios of color infra-red, MLW, and MHW support photography.
23. Adequacy of Control - The control was adequate.
24. Supplemental Control - U.S.G.S. topographic quadrangles were used to determine elevation of points for strip adjustment.
25. Photography - The photography was adequate.

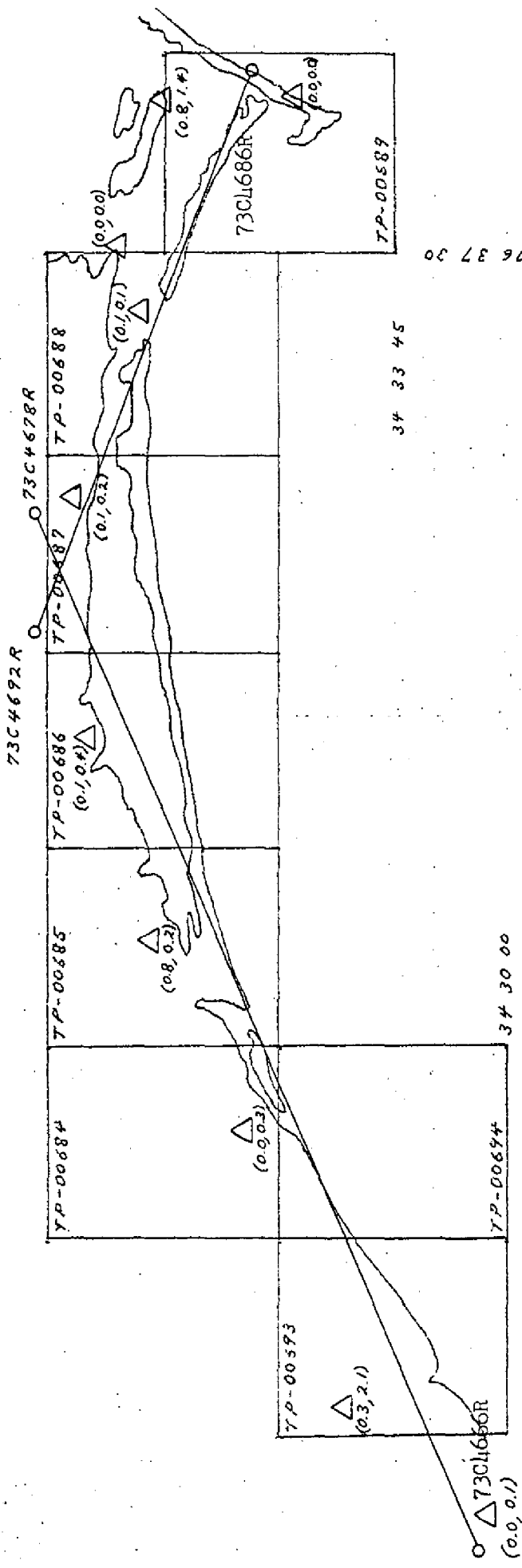
Submitted by,

Don O. Norman
Don O. Norman

Approved by:

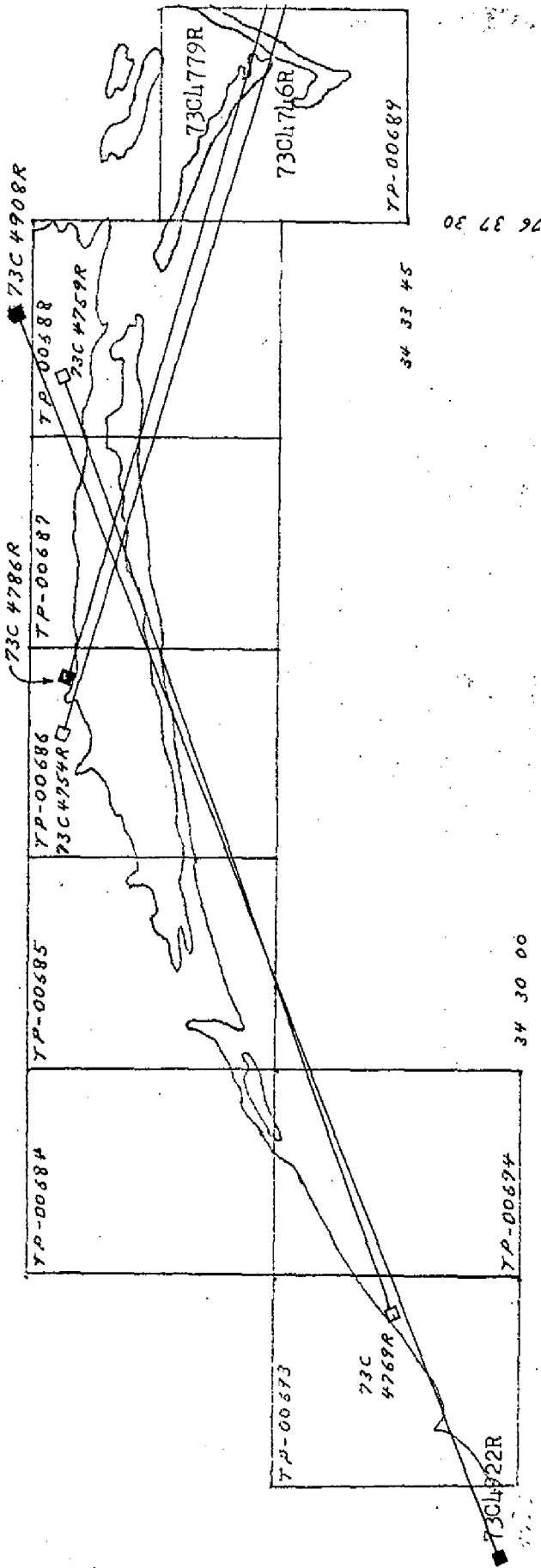
John D. Perrow, Jr.

John D. Perrow, Jr.
Chief, Aerotriangulation Section



AEROTRIANGULATION SKETCH
 CAPE LOOKOUT TO CAPE FEAR
 NORTH CAROLINA
 PART 1
 JOB CM-7219
 September, 1974

0 1:60000 Bridging Photos color IR



AEROTRIANGULATION SKETCH
 CAPE LOOKOUT TO CAPE FEAR
 NORTH CAROLINA

PART 4

JOB CM-7219

September, 1974

- 1:60000 color IR MLW
- 1:60000 color IR MHW

DESCRIPTIVE REPORT CONTROL RECORD

| MAP NO. | STATION NAME | JOB NO. | SOURCE OF INFORMATION (Index) | AEROTRIANGULATION POINT NUMBER | GEODETIC DATUM | | ORIGINATING ACTIVITY | | REMARKS | |
|-----------------------------------|-----------------|---------|-------------------------------|--------------------------------|---------------------|--------------------------|------------------------------------|----------|---------|----------|
| | | | | | COORDINATES IN FEET | STATE | COASTAL MAPPING DIVISION (Norfolk) | Forward | Back | |
| TP-00689 | | CM-7219 | | | N.A. 1927 | | Coastal Mapping Division (Norfolk) | | | |
| | | | G.P. Vol. 3 | | X= | φ 34 | λ 41 | 03.83040 | 118.0 | (1730.9) |
| SAM 3, 1962 | | | Pg. 3005 | | Y= | λ 76 | φ 31 | 37.52196 | 955.2 | (572.1) |
| CAPE LOOKOUT LIGHTHOUSE, 1886 | | | G.P. Vol. 3 | | X= | φ 34 | λ 37 | 21.29589 | 656.2 | (1192.6) |
| | | | Pg. 3A | | Y= | λ 76 | φ 31 | 29.61636 | 754.4 | (774.1) |
| BALD, 1962 | | | G.P. Vol. 3 | | X= | φ 34 | λ 39 | 46.96179 | 1447.1 | (401.8) |
| | | | Pg. 2994 | | Y= | λ 76 | φ 35 | 08.58400 | 218.6 | (1309.1) |
| JACK, 1933 | | | G.P. Vol. 3 | | X= | φ 34 | λ 39 | 06.50374 | 200.4 | (1648.5) |
| | | | Pg. 2999 | | Y= | λ 76 | φ 32 | 58.48050 | 1489.3 | (38.7) |
| BULL, 1913 | | | G.P. Vol. 3 | | X= | φ 34 | λ 40 | 17.75073 | 547.0 | (1301.9) |
| | | | Pg. 2992 | | Y= | λ 76 | φ 35 | 20.88287 | 531.7 | (995.8) |
| SHACK, 1962 | | | G.P. Vol. 3 | | X= | φ 34 | λ 37 | 48.00379 | 1479.2 | (369.6) |
| | | | Pg. 2995 | | Y= | λ 76 | φ 31 | 55.29565 | 1408.5 | (119.9) |
| B-1, BATTERY 5, 1943 | | | G.P. Vol. 3 | | X= | φ 34 | λ 36 | 06.68300 | 205.9 | (1642.9) |
| | | | Pg. 2997 | | Y= | λ 76 | φ 32 | 37.34259 | 951.5 | (577.4) |
| B-2, BATTERY 5, 1943 | | | G.P. Vol. 3 | | X= | φ 34 | λ 39 | 10.96620 | 337.9 | (1511.0) |
| | | | Pg. 2998 | | Y= | λ 76 | φ 30 | 06.39488 | 162.8 | (1365.1) |
| BARDEN INLET CHANNEL LT. 18, 1962 | | | G.P. Vol. 3 | | X= | φ 34 | λ 39 | 09.70426 | 299.0 | (1549.8) |
| | | | Pg. 3049 | | Y= | λ 76 | φ 31 | 11.05677 | 281.6 | (1246.3) |
| | | | | | X= | φ | | | | |
| | | | | | Y= | λ | | | | |
| COMPUTED BY | A.C. Rauck, Jr. | | | | DATE | COMPUTATION CHECKED BY | | | DATE | 10/7/74 |
| LISTED BY | | | | | DATE | LISTING CHECKED BY | | | DATE | |
| HAND PLOTTING BY | | | | | DATE | HAND PLOTTING CHECKED BY | | | DATE | |

COMPILATION REPORT

TP-00689

31. DELINEATION

This map was not delineated as a standard shoreline survey. See Summary, page 6 of this Descriptive Report.

Delineation of interior detail was by the Wild B-8 stereoplotter, using the bridging photography. The mean high and mean low water lines were compiled graphically, using tide coordinated infrared photographs. Pass points common to the three groups of photographs were dropped when the models were set for compilation of interior details.

Photography was adequate.

32. CONTROL

See the attached Photogrammetric Plot Report, dated: September, 1974.

33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

Contours are not applicable to the project. Drainage was delineated by the Wild B-8 stereoplotter and by office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS

Alongshore details were delineated by the Wild B-8 stereoplotter from office interpretation of the photographs and by identification of features on the photographs by the field editor.

The mean high and mean low water lines were delineated from tide coordinated infrared photographs.

36. OFFSHORE DETAILS

None

37. LANDMARKS AND AIDS

Preliminary Forms 76-40, Nonfloating Aids or Landmarks for Charts, were prepared by the Compilation Office and forwarded to the Field Editor and/or the Hydrographer for verification, location, or deletion.

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

See the attached Form 76-36b, Item #5 of the Descriptive Report concerning junctions.

40. HORIZONTAL AND VERTICAL ACCURACY

No Statement

46. COMPARISON WITH EXISTING MAPS

A comparison has been made with the following U.S. Geological Survey Quadrangle: CAPE LOOKOUT, NC, 1:24,000 scale, dated 1951.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with the following National Ocean Survey Chart: C&GS 420 BEAUFORT INLET and part of CORE SOUND, NC, scale 1:40,000, dated Dec. 16, 1972 (41st ed.).

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted by:

Joanne Desch

Joanne Desch
Cartographic Aid
November 8, 1974

Approved:

Albert C. Rauck, Jr.

Albert C. Rauck, Jr.
Chief, Coastal Mapping Section, AMC

ADDENDUM TO THE COMPILATION REPORT

TP-00689

FIELD EDIT

Field edit was adequate with one exception. The inshore end of the pier in ruin at the south side of Lookout Bight, which was overlooked by the original compiler, was misidentified on Photo. 73 C(CI) 4747 by the field editor. This ruin is visible on a transparency of Photo 68 E(C) 4728. The Coast Guard Pier on T-8818 N/2 is in the same position, which is further verification. During application of field edit, the pier ruin was incorrectly compiled. This error was corrected during final review of the manuscript.

Charles H. Bishop

Charles H. Bishop
Final Reviewer
18 March 1976

16 oct. 1975

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7219 (Cape Fear to Cape Lookout, N.C.)

TP-00689

Atlantic Ocean

Barden Inlet

Cape Lookout

Cape Point

Core Banks

Lookout Bight

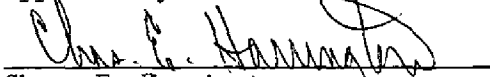
Onslow Bay

Power Squadron Spit

Shackleford Banks

Wreck Point

Approved by


Chas. E. Harrington
Staff Geographer--C51x2

| | | | |
|---|-----------------------------------|--|---|
| NOAA FORM 75-74 (7-75) | | U.S. DEPARTMENT OF COMMERCE NOAA NATIONAL OCEAN SURVEY | |
| PHOTOGRAMMETRIC OFFICE REVIEW | | | |
| TP -00689 | | | |
| 1. PROJECTION AND GRIDS RRW | 2. TITLE RRW | 3. MANUSCRIPT NUMBERS | 4. MANUSCRIPT SIZE RRW |
| CONTROL STATIONS | | | |
| 5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY RRW | | 6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) NA | 7. PHOTO HYDRO STATIONS NA |
| 8. BENCH MARKS NA | 9. PLOTTING OF SEXTANT FIXES | 10. PHOTOGRAMMETRIC PLOT REPORT NA | 11. DETAIL POINTS |
| ALONGSHORE AREAS (Nautical Chart Data) | | | |
| 12. SHORELINE RRW | 13. LOW-WATER LINE RRW | 14. ROCKS, SHOALS, ETC. | 15. BRIDGES |
| 16. AIDS TO NAVIGATION RRW | 17. LANDMARKS | 18. OTHER ALONGSHORE PHYSICAL FEATURES | 19. OTHER ALONGSHORE CULTURAL FEATURES |
| PHYSICAL FEATURES | | | |
| 20. WATER FEATURES RRW | | 21. NATURAL GROUND COVER NA | 22. PLANETABLE CONTOURS NA |
| 23. STEREOSCOPIC INSTRUMENT CONTOURS NA | 24. CONTOURS IN GENERAL NA | 25. SPOT ELEVATIONS NA | 26. OTHER PHYSICAL FEATURES |
| CULTURAL FEATURES | | | |
| 27. ROADS RRW | 28. BUILDINGS | 29. RAILROADS | 30. OTHER CULTURAL FEATURES RRW |
| BOUNDARIES | | | |
| 31. BOUNDARY LINES NA | | 32. PUBLIC LAND LINES NA | |
| MISCELLANEOUS | | | |
| 33. GEOGRAPHIC NAMES RRW | | 34. JUNCTIONS RRW | 35. LEGIBILITY OF THE MANUSCRIPT RRW |
| 36. DISCREPANCY OVERLAY RRW | 37. DESCRIPTIVE REPORT | 38. FIELD INSPECTION PHOTOGRAPHS | 39. FORMS RRW |
| 40. REVIEWER <i>RR White</i> Richard R. White 11/14/74 | | SUPERVISOR, REVIEW SECTION OR UNIT <i>Albert C. Rauck, Jr.</i> Albert C. Rauck, Jr. | |
| 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 <i>A.L. Shands</i> 2/6/75 <i>James R. Minton</i> Reviewed by: J.R. Minton 5/16/75 | | SUPERVISOR <i>Albert C. Rauck, Jr.</i> Albert C. Rauck, Jr. | |
| 43. REMARKS Field edit applied from field edit ozalid TP-00689 and field photo 73C(CI) 4747, and Form 76-40 attached to Field Edit Report. | | | |

FIELD EDIT REPORT
JOB CM 7219
CAPE FEAR TO CAPE LOOKOUT, NORTH CAROLINA
MAP TP-00689

52. Adequacy of Compilation

Compilation was adequate. The MHWL was accepted as compiled according to instructions received from the Chief, Coastal Mapping Division, dated May 28, 1974. No significant changes or deviations were noted during field edit. Power Squadron Spit is undergoing continual change as is Cape Point. One "pier in ruins" was compiled as a whole pier and another "pier in ruins" was overlooked. These were dealt with on the field edit ozalid and cross-referenced to the proper photograph if applicable. There are no "wrecks" visible near Wreck Point. There may be "wrecks" here but they are probably covered by sand. There are no "piles" in Barden Inlet. However, there are numerous mooring buoys and crab pot floats in the area.

54. Recommendations

There are no recommendations.

56. Landmarks and Non-Floating Aids for Navigation

There are no landmarks within the compiled limits of this map. Two landmarks, previously charted on chart 420 were deleted on the Form 76-40. They were a "HO(chy) and a Shed". The "Chimney" is no longer of any value as a landmark and the "Shed" is no longer extant.

There are seven fixed aids to navigation within the compiled limits of this map. One of them, Cape Lookout Breakwater Light 2, was not extant at the time of field and was deleted on Form 76-40. The light has been replaced by a buoy. Cape Lookout Radiobeacon, Lookout Bight Light 6 and 8, and Lookout Bight Daybeacon 6A were located by ground control methods and were entered on Form 76-40. Barden Inlet Light 2 and Cape Lookout Light were verified and so stated on the Form 76-40 furnished the field editor with the field edit ozalid.

57. Rocks, Reefs, and Shoals.

There are no rocks or reefs, as defined, within the compiled limits of this map. There are several "Shoals" to the southeast of Cape Point. These were delineated during compilation and the limits accepted as compiled.

58. Photography

Photography consisted of 1:20,000 black & white ratio prints of 1:60,000 scale photography. The matte finish field prints were partly fuzzy and made field identification difficult. The cronapague office prints were good.

59. Disposition of Data

The field edit ozalid, the matte finish prints, the cronapague ratio prints, and all pertinent data were forwarded to the Director, Atlantic Marine Center.

Richard E. Kesselring
Richard E. Kesselring
Surveying Technician
Photo Party 62

orig. to charts
6/2/75

NOAA FORM 76-40
(8-74)

Replaces C&GS Form 567.

NONFLOATING AIDS

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

ORIGINATING ACTIVITY
 HYDROGRAPHIC PARTY
 GEODETIC PARTY
 PHOTO FIELD PARTY
 COMPILATION ACTIVITY
 FINAL REVIEWER
 QUALITY CONTROL & REVIEW GRP.
 COAST PILOT BRANCH
(See reverse for responsible personnel)

REPORTING UNIT: TO BE CHARTED (Field Party, Ship or Office)
 TO BE REVISED (Coastal Mapping Div.)
 TO BE DELETED (AIC - Norfolk, Va.)

STATE: North Carolina

LOCALITY: Cape Fear to Cape Lookout

DATE: Feb. 1975

REPORTING UNIT: TO BE CHARTED (Field Party, Ship or Office)
 TO BE REVISED (Coastal Mapping Div.)
 TO BE DELETED (AIC - Norfolk, Va.)

STATE: North Carolina

LOCALITY: Cape Fear to Cape Lookout

DATE: Feb. 1975

The following objects HAVE BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS.

OPR PROJECT NO. 437

JOB NUMBER CY-7219

SURVEY NUMBER TP-00689

DATUM N.A. 1927

| CHARTING NAME | DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses) | LATITUDE | | LONGITUDE | | METHOD AND DATE OF LOCATION (See instructions on reverse side) | | CHARTS AFFECTED |
|---------------|---|-------------|---------|-------------|---------|---|--------------------------|-------------------|
| | | D.M. Meters | ° / ' " | D.P. Meters | ° / ' " | OFFICE | FIELD | |
| LIGHT | Cape Lookout Light (Cape Lookout Lighthouse, 1886) | 21.296 | 76-31 | 29.616 | 76-31 | 730(C)4780 Oct. 15, 1973 | F-3-6-V Jan. 16, 1975 | 420, 1234 1233 |
| RADIO BEACON | Cape Lookout Radio Beacon | 00.58 | 76-32 | 16.42 | 76-32 | " " | F-3-6-L Jan. 16, 1975 | " " |
| LIGHT | Lookout Eight Light 6 | 09.35 | 76-32 | 35.77 | 76-32 | " " | " " | " " |
| DAYBEACON | Lookout Eight Daybeacon 6A | 06.29 | 76-32 | 24.31 | 76-32 | " " | " " | " " |
| LIGHT | Lookout Eight Light 8 | 56.57 | 76-32 | 12.41 | 76-32 | " " | " " | " " |
| LIGHT | Barden Inlet Light 2 <i>Oct Position revised 30%, 11/11/77</i> | 41.02 | 76-32 | 21.04 | 76-32 | " " | F-3-6-V Jan. 16, 1975 | " " |
| LIGHT * | (Barden Inlet Channel Light 18, 1962) * Position verified during field edit of TP-COFIL (CM-7305). 76-40 form has been submitted on 5/12/75 | 09.704 | 76-31 | 11.057 | 76-31 | 740(C)18605 Apr. 1, 1974 | V.- Vis. Mar. 6, 1975 | " " 47 22 |
| | | 299.0 | | 281.6 | | | | 455 11 8 |

*orig. to charts
6/2/75*

NOAA FORM 76-40 (8-74)
Replaces C&GS Form 567.

TO BE CHARTED
 TO BE REVISED
 TO BE DELETED

REPORTING UNIT (If field party, ship or office)
**Coastal Mapping Div.
AOC - Norfolk, Va.**

STATE
North Carolina

LOCALITY
Cape Fear to Cape Lookout

DATE
Feb. 1975

ORIGINATING ACTIVITY
 HYDROGRAPHIC PARTY
 GEODETIC PARTY
 PHOTO FIELD PARTY
 COMPILATION ACTIVITY
 FINAL REVIEWER
 QUALITY CONTROL & REVIEW GRP.
 COAST PILOT BRANCH

(See reverse for responsible personnel)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
LANDMARKS FOR CHARTS

DATE
Feb. 1975

LOCALITY
Cape Fear to Cape Lookout

DATE
Feb. 1975

LOCALITY
Cape Fear to Cape Lookout

DATUM
N.A. 1927

REPORTING UNIT (If field party, ship or office)
**Coastal Mapping Div.
AOC - Norfolk, Va.**

STATE
North Carolina

LOCALITY
Cape Fear to Cape Lookout

DATUM
N.A. 1927

THE FOLLOWING OBJECTS HAVE HAVE NOT BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS.

OPR PROJECT NO.
437

JOB NUMBER
CM-7219

SURVEY NUMBER
TP-00689

| CHARTING NAME | DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses) | POSITION | | METHOD AND DATE OF LOCATION (See instructions on reverse side) | | CHARTS AFFECTED |
|---------------|---|---------------------------------|----------------------------------|---|-------|-----------------|
| | | LATITUDE ° / ' / D.M. Meters | LONGITUDE ° / ' / D.P. Meters | OFFICE | FIELD | |
| HO. (CHY) | No value as a landmark. | 34-36.6 | 76-32.5 | | | 420 |
| SHED | Non-existent | 34-36.6 | 76-32.2 | | | 420 |
| | | | | | | |
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REVIEW REPORT TP-00689

SHORELINE

March 18, 1976

61. GENERAL STATEMENT:

See Summary, which is page 6 of this Descriptive Report.

A comparison print, showing differences noted in par. 62 through 65 is bound with the original of this report.

The Cape Lookout area, especially Cape point, is subject to frequent change caused by storms and tides.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

A comparison was made with a copy of Survey T-8745 S/2, 1:10,000 scale, dated January 1951; and with a copy of Survey T-8818 N/2, 1:10,000 scale, dated March 1950. Significant differences are shown on the comparison print in blue.

In the area compared, TP-00689 supersedes T-8745 S/2 and T-8818 N/2 for nautical chart construction purposes. T-8745 S/2 and T-8818 N/2 are the latest registered prior surveys of the area.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with U.S.G.S. Quadrangle HARKERS ISLAND NC, and CAPE LOOKOUT, NC, both 1:10,000 scale, and both dated 1951. The HARKERS ISLAND quadrangle was photo-revised in 1971. Significant differences are shown on the comparison print in blue - the same line that shows differences with prior registered topographic surveys; except north of lat. $34^{\circ} 37' 30''$ and east of long. $76^{\circ} 32' 30''$. In this area, significant differences are shown on the comparison print in brown.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with a verified copy of Survey H-9464 (PE 20-2-74). No significant differences were noted except at the south tip of Cape Point. This difference in mean high water line is shown on the comparison print in purple. The hydrographer's shoreline is of later date than TP-00689 and should supersede the photogrammetric mean high water line.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with Chart 11545, 1:40,000 scale with a 1:20,000 scale insert of Cape Lookout, 43rd edition, dated March 22, 1975. Significant differences are shown in red on the comparison print.

Charted positions of aids in Lookout Bight do not agree with positions of the same objects on TP-00689. Positions of these aids were located or verified by the field editor, using ground survey methods in January 1975. These positions are in agreement on TP-00689 and H-9464.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map complies with Project Instructions dated October 9, 1974, except as explained in Summary, and meets requirements for Bureau Standards and National Standards of Map Accuracy.

Submitted:

Charles H. Bishop
Charles H. Bishop
Cartographer
18 March 1976

Approved for forwarding:

Joseph W. Vonasek
Joseph W. Vonasek
Chief, Photogrammetric Branch, AMC

Approved:

S. G. Blankinbale
for A. K. Heywood
Chief, Photogrammetric Branch *bb*

Walt...
Chief, Coastal Mapping Div.

76° 37' 30"

37'

76° 36'

22

34° 40'

340,000 FT

39'

38'

△ BULL

BALD 1962

Wreck not visible
on photos; not
observed by field
editor



COMPARISON PRINT

Blue = USGS and
T-8745 S/2
Red = Chart 11545

O
N
S
L
O
W

TP-00689
1:20,000

35'

34'

76° 33'

23

913

34° 40' 00"

SHACKLEFORD
BANKS

Sand

△ JACK 1933

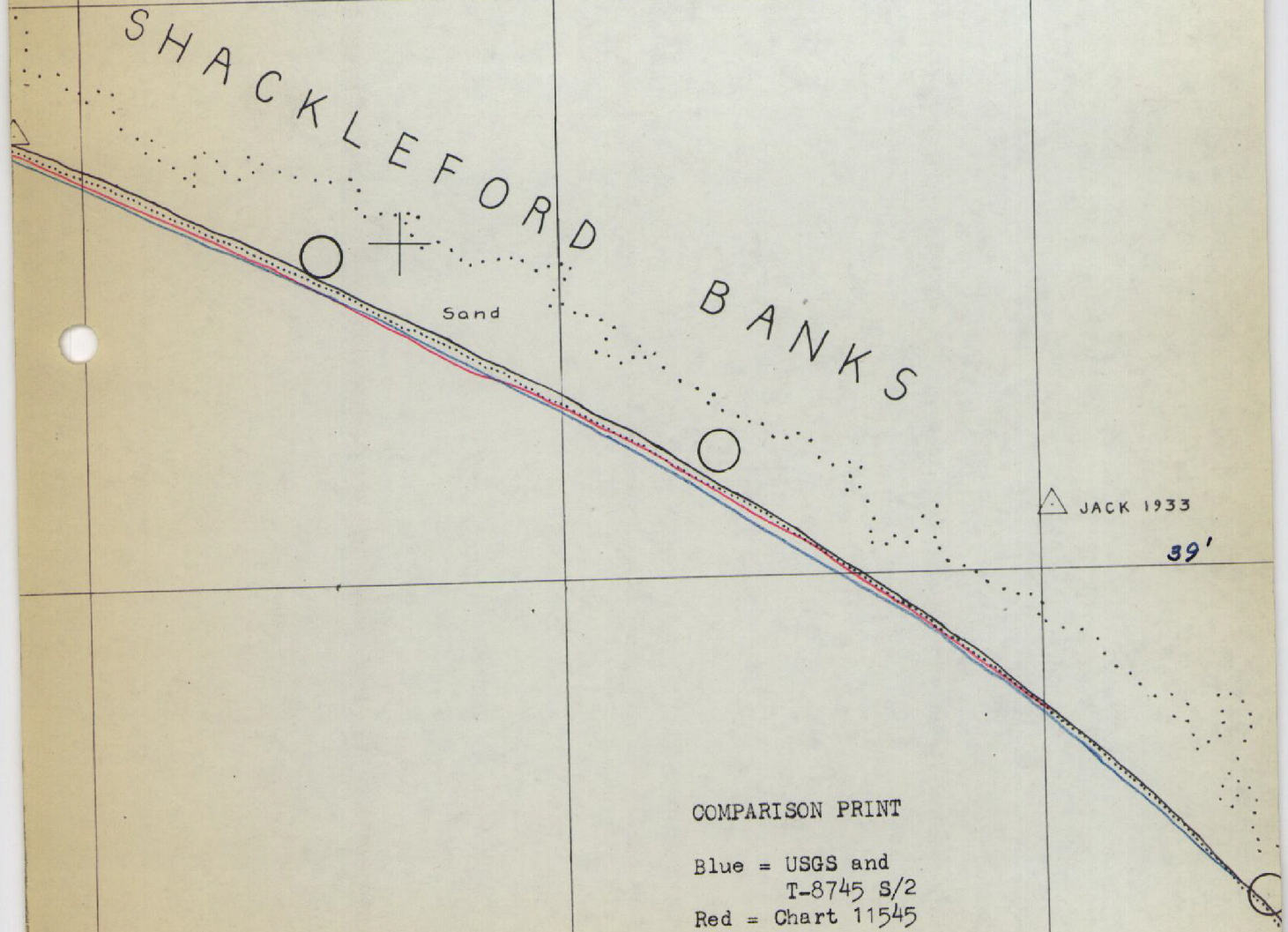
39'

COMPARISON PRINT

Blue = USGS and
T-8745 S/2
Red = Chart 11545

B
A
Y

LOOKOUT



32'

31'

76°30'00"

24

34°
40'

COMPARISON PRINT

Blue = T-8745 S/2
Red = Chart 11545
Brown = USGS

BARDEN INLET CHANNEL
LIGHT 18, 1962



B-2 BATTERY 5 1943



y=34

39'

CORE BANKS

TP-00689
1:20,000

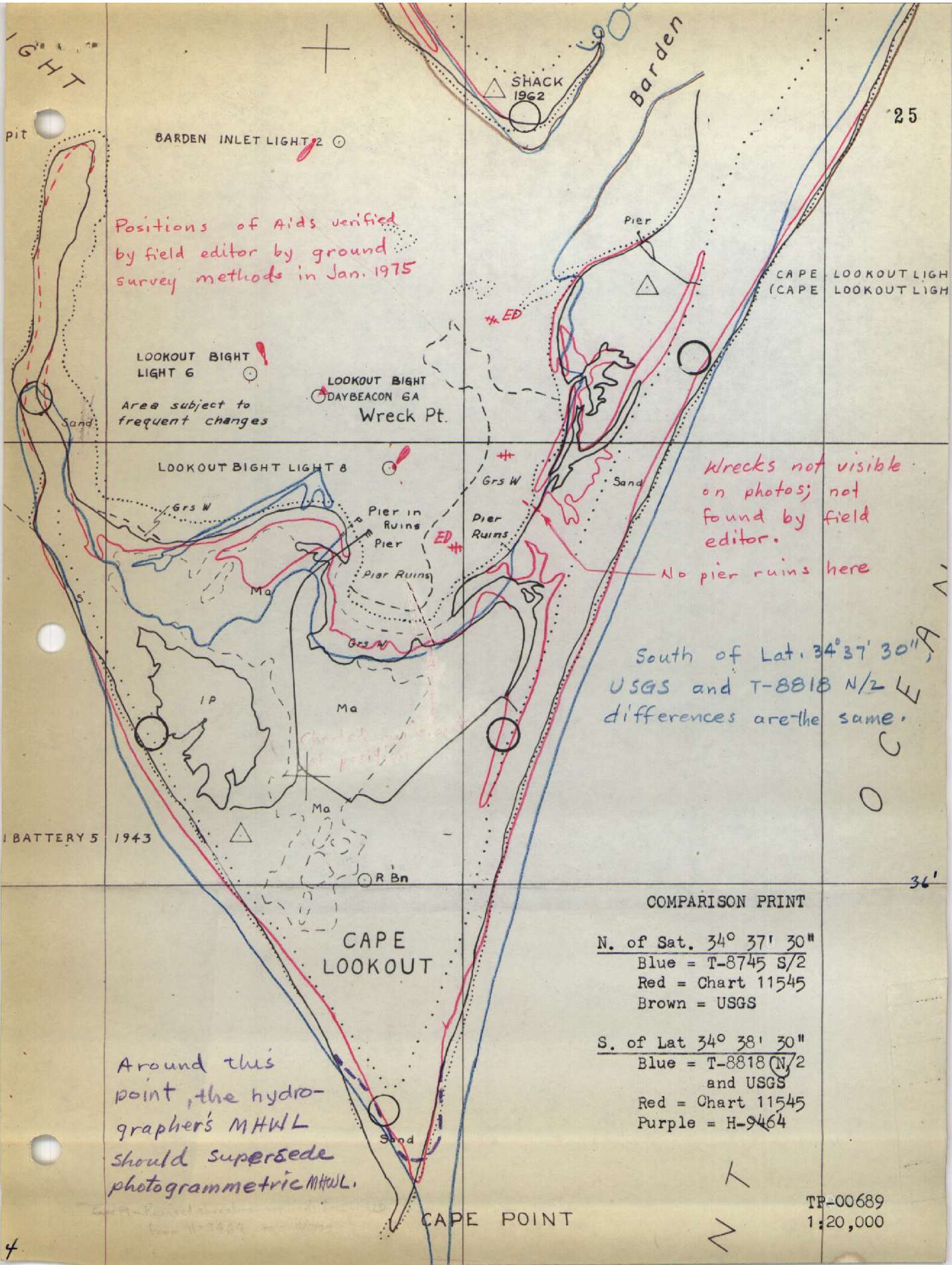
Sand

Sand

Inlet

3

70'



Positions of Aids verified by field editor by ground survey methods in Jan. 1975

LOOKOUT BIGHT LIGHT 6
Area subject to frequent changes

LOOKOUT BIGHT DAYBEACON 6A
Wreck Pt.

Wrecks not visible on photos; not found by field editor.

No pier ruins here

South of Lat. $34^{\circ} 37' 30''$, USGS and T-8818 N/2 differences are the same.

O
C
E
A
N

BATTERY 5 1943

CAPE LOOKOUT

Around this point, the hydrographer's MHWL should supersede photogrammetric MHWL.

COMPARISON PRINT

- N. of Sat. $34^{\circ} 37' 30''$
 Blue = T-8745 S/2
 Red = Chart 11545
 Brown = USGS
- S. of Lat $34^{\circ} 38' 30''$
 Blue = T-8818 N/2 and USGS
 Red = Chart 11545
 Purple = H-9464

CAPE POINT

TP-00689
1:20,000

4

34°35'00"

76°32'00"

Area subject to frequent changes

A T L A



RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. TP-00689

INSTRUCTIONS

- A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.
- 1. Letter all information.
- 2. In "Remarks" column cross out words that do not apply.
- 3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

| CHART | DATE | CARTOGRAPHER | REMARKS |
|-----------------|---------|--------------|--|
| 420 (11545) | 11-9-77 | J. JOHANNON | Full Part Before After Verification Review Inspection Signed Via Drawing No. 41 (ADEQUATELY APPLIED) |
| 777 (11542) | 5-24-78 | M. MOORE | Full Part Before After Verification Review Inspection Signed Via Drawing No. 18 (Fully Applied) |
| 1234 (11543) | 6-19-79 | M. PANAS | Full Part Before After Verification Review Inspection Signed Via Drawing No. 28 (Adequately Applied) |
| 1233 (11544) | 6-20-79 | M. PANAS | Full Part Before After Verification Review Inspection Signed Via Drawing No. 38 (Adequately Applied) |
| | | | Full Part Before After Verification Review Inspection Signed Via Drawing No. |
| | | | Full Part Before After Verification Review Inspection Signed Via Drawing No. |
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TP-00689