FE237

Diagram No. 1217-2

NOAA FORM 76-35A

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

# DESCRIPTIVE REPORT

Type of Survey Hydrographic  Field No. RU/HE-80  Office No. FE-237
LOCALITY
State New Jersey
General LocalityAtlantic Ocean
LocalityApproach.to.Brigantine.Inlet
19 80
CHIEF OF PARTY  CDR Melvyn C. Grunthal
LIBRARY & ARCHIVES
DATE November 9, 1981

☆U.S. GOV. PRINTING OFFICE: 1980-668-537

Grea Z CHT 12318 72300

ref 1-1635(80)

NOAA FORM 77-28 (11-72)

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

REGISTER NO.

## HYDROGRAPHIC TITLE SHEET

FE-237

INSTRUCTIONS - The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

FIELD NO.

RU/HE-80

☆ U.S. GPO: 1974-0-768-081/1207

StateNew Jersey
General locality East Coast Investigations Atlantic Ocean
Locality Approach to Brigantine Inlet
Scale Date of survey 1 Dec - 3 Dec 1980
Instructions dated 17 October 1980 Project No. S-C619-RU/HE-80
Vessel NOAA Ships RUDE (S590) and HECK (S591)
Chief of party Cdr. Melvyn C. Grunthal
Surveyed byCdr M.C.Grunthal, Lt.Cdr R.S.Moody, Lt D.H.Peterson, Ens F.L.Collins
Soundings taken by echo sounder, hand lead, pole Pneumatic depth gauge
raphic record scaled by
Graphic record checked by
Protracted by Automated plot byXVNETICS 1201 (AMC)
Verification by R.D. Sanochi
Soundings in farthoxies feet at MLW MLKWX Predicted tides
Program 800210  Dec times are GMT  NOTE: It would serve no useful purpose to
STANDARDS prepare a digital magnetic tape and effect  CR'D.  8-11-83 all the associated digital file handling procedures,  Chap since only 1 sounding comprises the entire  Survey development. Accordingly, this survey
should be considered as a manual survey and entered into the AIS via the most expedient method.
NOAA FORM 77-28 SUPERSEDES FORM C&GS-537.

#### A. AUTHORITY

Hydrographic Project Instructions S-C619-RU/HE-80, East Coast Investigations, Approach to Brigantine Inlet, New Jersey dated 17 October 1980.

### B. CHARACTER AND LIMITS OF THE WORK

The purpose of this project was to assist the U.S. Coast Guard in locating and obtaining a least depth over the wreck of the tug PATRICE MCALLISTER. The approximate location of the tug, as determined by the Coast Guard, was 39°24.7°N, 74°13.9°W, about 5 miles east of Brigantine Inlet, New Jersey, in charted depths of 49 to 51 feet of water. Visual control was used exclusively on this project.

### C. SOUNDING LAUNCH

Vessels used during the fathometer search to locate the PATRICE MCALLISTER were the NOAA Ship RUDE, S590 and the NOAA Ship HECK, S591.

# D. SOUNDING EQUIPMENT AND CORRECTIONS TO SOUNDINGS

Least depths were taken using a Roylyn Model 25546-23B14-HDD precision depth gayge S/N 784996 configured as a pneumatic depth gayge. The manufacturer's specified accuracy for this gayge is 1/4 of 1% over the range of 230' or 0.58'. This accuracy was verified by comparison with a lead line from 2' to 30' and back to 2', by 2' increments. The greatest variance from the leadline depth was 0.2'. The average variance of the 30 comparisons was 0.04'. The comparison was made on 27 October 1980 and is shown below. No corrections are deemed necessary since the depths were determined by water pressure.

# PNEUMATIC DEPTH GAUGE CALIBRATION

iance
ance

### E. HYDROGRAPHIC SHEET

Not applicable.

### F. CONTROL STATIONS

The following landmarks were used in locating the PATRICE MCALLISTER. These landmarks are shown on charts 12318 and 12323.

Atlantic City, Claridge Hotel Dome , 1932

Latitude = 39<sup>0</sup>21'26.671"N Longitude = 74<sup>0</sup>25'55.913"W

Seven Islands Fish Factory Tank , 1950

Latitude = 39°31'07.980"N Longitude = 74°20'15.260"W

Long Beach Waterworks Standpipe, 1932

Latitude = 39°35'10.198"N Longitude = 74°13'29.143"W

Holgate Water Tank, 1962

Latitude = 39<sup>o</sup>32'06.286"N Longitude = 74<sup>o</sup>15'47.098"W

# G. HYDROGRAPHIC POSITION CONTROL

Three-point visual sextant fixes, with check angles, were used to locate the tug, PATRICE MCALLISTER. The latitude and longitude for the PATRICE MCALLISTER was obtained mathematically using the Utility Hydrographic Package 800210 as programmed for the Hewlett-Packard 9815A.

The following position was obtained for the 3-point fix taken on the RUDE near the position of the least depth of the PATRICE MCALLISTER.

Left Object - Atlantic City, Claridge Hotel Dome Center Object - Seven Islands Fish Factory Tank Right Object - Long Beach Water Works Standpipe Check (right) - Holgate Water Tank Object

Left Angle - 72<sup>o</sup>39'18" Right Angle - 39<sup>o</sup>14'48" Check Angle - 26<sup>o</sup>30'00"

Latitude = 39<sup>0</sup>24'43.459"N Longitude = 74<sup>0</sup>14'02.904"W

Latitude = 39°24'42.686"N Determined by Longitude = 740|4'03.065"W Check angle The following position was obtained as a check of the first 3-point fix:

Left Object - Atlantic City Claridge Hotel Dome Center Object - Seven Islands Fish Factory Tank Right Object - Long Beach Water Works Standpipe

Left Angle = 72<sup>o</sup>39'24" Right Angle = 39<sup>o</sup>15'00"

Latitude =  $39^{\circ}24'43.504''N$ Longitude =  $74^{\circ}14'02.912''W$ 

Originally, Beach Haven Tank had been used as a check object for the above 3 point fix. However, It was learned that the latitude and longitude which we had for the tank was not in the NGS data base and the check angle was therefore rejected.

The average of the positions found using the 3 point visual fix along with the check angle is

Latitude = 39°24'43.07"N Longitude = 74°14'02.98"W -

The above average position is not over the least depth of the PATRICE MCALLISTER (see explanation in section M). The best estimate of the least depth position is 80' (24 m) due north of the above average position. This puts the position of the least depth at:

Latitude = 39°24'42.29"N } in error see Verification Report, Longitude = 74°14'02.98"W } section 4.6

## H. SHORELINE

Not applicable.

### I. CROSSLINES

Not applicable.

### J. JUNCTIONS

Not applicable.

# K. COMPARISON WITH PRIOR SURVEYS See Verification Report, Section 6

Depths found in the area by the RUDE and HECK show general agreement with the prior survey, H-6271 (1937). However, the RUDE and HECK do not have survey quality fathometers and no effort was made to determine the actual depths in the area.

## L. COMPARISON WITH THE CHART

The wreck of the PATRICE MCALLISTER as currently charted at position 39°24.7'N and 74°13.8' W on chart 12318 is incorrect. See section 0.

6

#### M. REMARKS

On I December, the RUDE located an obstruction, tentatively identified as the PATRICE MCALLISTER, during a fathometer search west of the "RB" buoy marking the location of the PATRICE MCALLISTER. From this obstruction, the "RB" buoy was 0.21 nm at a bearing of 064° T by ship's radar and gyrocompass. The location was marked by temporary floats. The next day the ships returned directly to the obstruction with the intention of obtaining a least depth and detached position. After analyzing the current and wind, the RUDE anchored approximately 250' to the south of the obstruction and drifted north directly over the obstruction. The RUDE's 260 lb end weight was then deployed over the stern, and in addition, a grapple was set in the obstruction to hold the RUDE in position over the obstruction in a two point moor. At this time 2 sets of 3-point visual sextant fixes, with check angles, were taken from the RUDE near the forward edge of the stack, to insure that we had properly identified landmarks on the beach. The objects used are enumerated in section F. In addition, the Beach Haven Tank was used for a check object. The position for this object was later found not to be in the NGS Data Base and the check angle rejected. A dive was then made on the obstruction to identify it and determine a least depth. The obstruction was positively identified as the PATRICE MCALLISTER based on size, configuration and hull color when actual observations were compared with a description provided by McAllister Brothers Transportation, Inc.

The tug was lying on its bottom in approximately 55' of water with the bow pointing north. A least depth of 25' (reduced for predicted tides) was obtained by pneumatic depth gauge. During the dive it was found that the RUDE's end weight had lodged on the deck of the tug about midway between the bow and the stern. Our intention at this point was to obtain a detached position over the point of least depth on the PATRICE MCALLISTER. Unfortunately, haze had settled along the shoreline obscuring the objects we had intended to use for control. In addition, the ships had to get u/w for Atlantic City because of the necessity of getting one of the divers to a recompression chamber.

The positions determined by the two 3-point visual fixes and the single check angle were calculated utilizing the Hydrographic Utility Program (800210) for the H.P. 9815A computer. All were found to lie within the International Hydrographic Accuracy Standards (see page 1.4, Hydrographic Manual) which call for an indicated repeatability of a fix combined with plotting error to seldom exceed 0.05 inches at survey scale. Since the scale of the affected chart (12318) is 1:80000 and the scale of the latest prior survey (H-6271 accomplished between the dates of May 7 and August 5, 1937) was 1:40000, the repeatibility combined with the plotting error should seldom exceed 51 M. The 25 M repeatability for this position falls within this requirement.

A secondary problem occurs since the fixes were not taken directly over the least depth, but from a point south of the position of the least depth. See Figure I for an illustration of this problem. The problem is to find the distance from the point at which the fix was taken to the position of the least depth. The distance from the point at which the fix was taken to the stern of the RUDE is approximately 55'. The end weight was nearly directly beneath the stern of the RUDE, approximately midway between the bow and the stern of the PATRICE MCALLISTER (about 45-50' from the bow of the tug). The point of least depth was on the pilothouse approximately 25' from the bow of the tug. Therefore, the distance from the fix to the position of the least depth was 55' + 25', approximately 80', in a direction of almost due north.

The original intention was to obtain a position directly over the least depth on the next day, December 3rd. Unfortunately, winds of 40 kts prevented operations on this date. Communication with AMC/CAMI and thru CAMI to C35 determined that the position obtained on 2 December would be adequate for the scale of the chart. A better position could have been obtained through the use of Del Norte and/or T2's; however, this would have required an estimated 2 to 3 days minimum of additional ship time. When this was balanced against the additional accuracy which would have resulted, it was decided that the additional accuracy did not justify the added cost.

#### N. ADEQUACY

This item is considered complete and adequate for charting purposes.

### O. RECOMMENDATIONS

It is recommended that a symbol showing a submerge dangerous wreck over which the depth is known be placed on the chart at:

Latitude = 39°24'42.29"N } See Verification Report Section 7.a. Longitude = 74°14'02.98"W }

The depth least, should be given as 25' below MLW (reduced for predicted tides) The wreck symbol at Latitude 39°24.7'N, Longitude 74°13.8'W should be removed.

### P. APPROVAL

All records of this survey are hereby approved. The field work was personnally supervised by the undersigned and the records were inspected daily. The item is considered complete and adequate for charting.

Approved by
M. C. Grunthal
Commanding Officer
NOAA Ships RUDE/HECK

PPILOM-10 X 10 TO 1 INCH



3 Point Visual Fix # Z

→A STACK POS SYS STA ID NBRS:

STA1†STA2+RUN

R-R STA1 11 R-R STA2 12

STACK ANT HGTS:

ABV GRND/WTRLINE TO NEAREST METER

S11S21VESSEL+RUN

@STA1 1 M @STA2 1 M VESSEL 1 M

\*MT SG TAPE→RUN\*

→K STACK OBJ ID:

LFT↑CTR↑RGT→RUN
OR L↑C↑R↑CHK→RUN

LFT 1
CTR 2

3

→L STACK RATES:

RGT

PTRN1↑PTRN2→RUN

P1' 0 M P2' 0 M

→M STACK ANGLES:

DDDMM.M LTR+RUN OR LTRTCHK+RUN

LFT 7239.4 RGT 3915.0

POSITION:

LAT 392443.504 LON 741402.912

ERROR ELLIPSE:

AZ-MAX 168 DEG MAX 3.44 M MIN 1.98 M

CS.





→D DIRECT FROM:

3 Point Fix Position (average)

STNDPT LAT&LON:

LAT 39 DEG 24 MIN 43.07000 SEC LON 74 DEG 14 MIN 2.98000 SEC

>E TO:

Least Depth for PATRICE MC

FWD AZ & DIST:

FWD AZ 0 DEG 0 MIN 0.000 SEC

DST 24.000 M

LAT 39 DEG 24 MIN 42.29177 SEC THE TOTAL T

0.000 SEC

In error.

See fier's

Verifier's

Report

Sec. 4.b.

Sec. 7.a





Long Beach Water Works Standpipe

ID NBR 3 LAT 393510.198 LON 741329.143

Holgate Water Tank

ID NBR 4 LAT 393206.286 LON 741547.098

Beach Haven Water Tank ID NBR 5 LAT 393346.764 LON 741431.479

Del Norte Station
L - Fake

ID NBR 11
LAT 392126.671
LON 742555.913
ELEV'N 1.00 M

FILE

Del Norte Station

2 - Fake

ID NBR 12

LAT 393107.980

LON 742015.260

ELEV'N 1.00 M

PROJECT:

S-CGIG-RU/HE-80

Brigantine Inlet, NJ

SIGNALS/STATIONS

Atlantic City,
Claridge Hotel

ID NBR 1
LAT 392126.671
LON 742555.913

FILE 1

Seven Is lands Fish
Factory Tank

ID NBR 2
LAT 393107.980
LON 742015.260

FIL.





Joint Visual

Fix # /

A STACK POS
SYS STA ID NBRS:

STAITSTA2→RUN

R-R STA1 11
R-R STA2 12

STACK ANT HGTS:

ABV GRND/WTRLINE
TO NEAREST METER

SITS2TVESSEL→RUN

@STA1 1 M
@STA2 1 M
@STA2 1 M

\*MT SG TAPE→RUN\*

LFT↑CTR↑RGI→KON OR L↑C↑R↑CHK→RUN LFT CTR RGT →L STACK RATES: PTRN1 TPTRN2 + RUN P1' 0 M P2' →M STACK ANGLES: DDDMM.M LTR+RUN OR LIRICHK+RUN LFT RGT 7239.3 3914.8 POSITION: LAT 392443.459 LON 741402.904 ERROR ELLIPSE: AZ-MAX 168 DEG 3.44 M MAX 1.98 M MIN





Fix #1 - Check

A STACK POS
SYS STA ID NBRS:

STA1↑STA2→RUN

R-R STA1 11
R-R STA2 12

STACK ANT HGTS:

ABV GRND/WTRLINE
TO NEAREST METER

S1↑S2↑VESSEL→RUN

@STA1 1 M @STA2 1 M VESSEL 1 M

\*MT SG TAPE+RUN\*

3 Point Visual

LFT↑CTR↑RGT→RUN OR L↑C↑R↑CHK→RUN LFT CTR 4 RGT →L STACK RATES: PTRN1↑PTRN2→RUN P1' 0 M P2' 0 M →M STACK ANGLES: DDDMM.M L↑R→RUN OR L↑R↑CHK→RUN LFT RGT 7239.3 2630.0 V 1203 POSITION: LAT 392442.686 LON 741403.065 ERROR ELLIPSE: AZ-MAX 165 DEG MAX 6.22 M 1.90 M MIN





→I INVERSE FROM:

Fix #1 to Fix

#1 Check ∠

STNDPT LAT&LON:

LAT 39 DEG
24 MIN
43.45900 SEC

LON 74 DEG
14 MIN
2.90400 SEC

→J TO:

FOREPT LAT&LON:

LAT 39 DEG 24 MIN 42.68600 SEC LON 74 DEG 14 MIN 3.06500 SEC

DST 24.148 M

FWD AZ 9 DEG 10 MIN 41.008 SEC BCK AZ 189 DEG 10 MIN 40.906 SEC





# U.S. DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration NATIONAL OCEAN SURVEY NOAA SHIPS RUDE & HECK 439 West York Street Norfolk, VA 23510

December 16, 1980

To:

Chief, Tidal Requirements & Acquisitions Branch

ATTN: C231

From:

Commanding Officer

Subj: Smooth Tides for Project S-C619/RU/HE-80

Ref:

Hydrographic Project Instructions: S-C619-RU/HE-80

Smooth tides for the time period 1300-1900 CUT on 2 Dec 1980 is requested for position

> 39024' 42.3"N 74º14' 03.0"W

This data will be used to reduce depths taken on the dangerous obstruction to navigation, the sunken tug PATRICE McALLISTER located on Chart 12318. Sandy Hook, NJ (853-1681) will provide control for data determination. The operating tide station at Atlantic City, NJ (853-4720) will provide additional control.

All data should be sent to Chief, Requirements Branch, C351.

# U.S. DEPARTMENT OF COMMERCE 1. LUARY 9, 1981 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY

### TIDE NOTE FOR HYDROGRAPHIC SHEET

Processing Division: Atlantic Marine Center:

Hourly heights are approved for

Tide Station Used (NOAA Form 77-12): 853-4720 Atlantic City, New Jersey

Period: December 2, 1980

WIRE DRAG:

KANDOCONDAMINANA RU/HE 80

OPR: FE-237 RU/HE 80

Locality: Coast of New Jersey, Offshore of Atlantic City, New Jersey

Plane of reference (mean kower low water): 4.53 ft.

Height of Mean High Water above Plane of Reference is 4.10 ft.

REMARKS: Recommended Zoning:

Zone direct.

prief, Datums and Information Branch

NOAA FORM 76-155 (11-72)	NATIONAL	OCEANIC			ENT OF CO			RVEY N	UMBER	
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Verification by					31 Aug Beginning Date	9.1	Ending D	Aug 81
Verification Che	ck by R. G	. Sanocki . Roberson			l Sep	81	Date 2	Sep 81

Dryen 6/1/82 1Re.

Time (Hours)

Time (Hours)

Time (Hours)

10 Sep 81

14 Sep 81

Date

15 MAR. 82

Marine Center Inspection by

Requirements Evaluation by

Quality Control Inspection by L. M. Quinlan

# REGISTRY NO. PC - Z37

The magnetic tape containing the data for this survey has not been corrected to reflect the changes made during evaluation and review.

When the magnetic tape has been updated to reflect the final results of the survey, the following shall be completed:

	MAGNETIC TAPE CORRECTED
DATE	TIME REQUIRED INITIALS
REMARKS:	
	No digital data will be forwarded for
•	No digital data will be forwarded for this survey. See Title Sheet.
	0/3/1/2

# ATLANTIC MARINE CENTER VERIFICATION REPORT

REGISTRY NO.: FE-237

FIELD NO.: RU/HE-80

New Jersey, Atlantic Ocean, Approach to Brigantine Inlet

SURVEYED: December 1 through 3, 1980

SCALE: 1:40,000

PROJECT NO.: S-C619-RU/HE-80

SOUNDINGS: Pneumatic Depth Gauge

CONTROL: Three Point Sextant Fixes on Shore Signals

Chief of Party
Surveyed by

M. C. Grunthal
R. S. Moody
D. H. Peterson
F. L. Collins

### 1. INTRODUCTION

- a. No unusual problems were encountered during the verification of this survey.
- b. Changes in red in the Descriptive Report were made during verification.

# 2. CONTROL AND SHORELINE

- a. The control was adequately described in sections  ${\sf F.}$  and  ${\sf G.}$  of the Descriptive Report.
  - b. No shoreline was applied.

## 3. HYDROGRAPHY

The methods by the hydrographer were adequate to identify the wreck and to determine the least depth.

# 4. CONDITION OF SURVEY

The smooth sheet and accompanying overlays, hydrographic records, and reports are adequate and conform to the requirements of the <u>Hydrographic Manual</u>. The following is also noted:

a. During the verification process field data was entered into the processing system at the Atlantic Marine Center. To obtain the desired results some observations were manipulated for the convenience of the automated system at AMC for the purpose of verification of the field data. The resulting accompanying listings, therefore, will not correspond to the field data regarding time of observation and position numbers. This does not invalidate the original field observations and the approach used in processing the data was for evaluative purposes only. The results are adequately represented on the smooth plot as shown in the Descriptive Report.

b. The field correction applied to the average of the observed position fixes to account for displacement of approximately 80 ft. to the position of the wreck was found to be applied in the opposite direction (South instead of North). The correction was reapplied based upon the relationship illustrated in Figure 1 in the Descriptive Report provided by the hydrographer.

# 5. JUNCTIONS

None

## 6. COMPARISONS WITH PRIOR SURVEYS

# H-6271 (1937) 1:40,000

The wreck found by the present survey falls in the above prior survey depths of 50 to 51 feet. The present survey results should be considered supplemental to the above prior survey for charting purposes.

# 7. COMPARISON WITH CHART 12318 (32nd. Ed., Oct. 27, 1979)

# a. Hydrography

The charted hydrography originates with the previously discussed prior survey supplemented by Local Notice to Mariners 45 of 1976 and 50 of 1977. The present survey is considered adequate to supersede the source of the wreck charted in latitude 39°24'42", longitude 74°13'48". It is recommended that a "wreck over which depth is known" (25 wk) with a danger curve be charted at this position of latitude 39°24'44.27", longitude 74°14'02.98".

# b. Aids to Navigation

The field unit verified the position of "RB" buoy by "LORAN C" relative to a fathometer indication of the wreck. The buoy was found to be 0.21 nm from the wreck by a radar bearing of 064°T. It is recommended that the buoy be continued to mark the wreck and repositioned by the Coast Guard to the present survey's position of the wreck.

# 8. COMPLIANCE WITH INSTRUCTIONS

This survey complies with the Project Instructions.

# 9. ADDITIONAL FIELD WORK

This is considered to be an excellent survey and no additional field is recommended.

R. G. Roberson

Cartographer

Verification Check

R. D. Sanocki

Cartographer

Evaluation and Analysis



# UNITED STATES DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration

NATIONAL OCEAN SERVICE CHARTING AND GEODETIC SERVICES Rockville, Md. 20852

N/CG241:CBE

AUG 8 1983

TO:

N/MOA - Wesley V. Hull

FROM: for N/CG2 .- C. William Hayes fig of R. Ceters

SUBJECT: Report of Compliance for FE-237

The Descriptive Report for FE-237 (1980), New Jersey, Atlantic Ocean, Approach to Brigantine Inlet, has been reviewed. This survey, as noted in the Quality Control Report, dated March 2, 1982 (copy attached), and the Hydrographic Survey Inspection Team Report, dated September 15, 1981, is complete and adequate for the purposes intended and is in compliance with Project Instructions S-C619-RU/HE-80, dated October 17, 1980.

Attachment

cc:

N/CG242 w/o att.



# INSPECTION REPORT FE-237

The completed survey has been inspected by the Hydrographic Inspection Team with regard to survey coverage, delineation of depth contours, development of critical depths, cartographic symbolization, and verification or disproval of charted data. The Verification Report has presented the facts accurately and properly, the procedures used were appropriate, and the recommendations are logical and justifiable. The survey complies with National Ocean Survey requirements except as noted in the Verification Report. The survey records comply with NOS requirements except where noted in the Verification Report. The Hydrographic Inspection Team concurs with the verifier's findings, actions, and recommendations.

Examined and Approved Hydrographic Inspection Team

Karl/Wm. Kieninger, ODR, NOAA

Chief, Processing Division

Guy F. Trefethen

Senior Cartographic Technician Verification Branch

Approved/Forwarded September 15, 1981

Richard H. Houlder, RADM, NOAA Director, Atlantic Marine Center



# UNITED STATES DEPARTMENT OF COMMERCE **National Oceanic and Atmospheric Administration** NATIONAL OCEAN SURVEY Rockville, Md. 20852

C352:LQ

March 2, 1982

T0:

Glen R. Schaefer De for

Chief, Hydrographic Surveys Division

THRU:

Chief, Quality Control Branch for

FROM:

Lisa Quinlan Isaquinlan Quality Evaluator

SUBJECT: Quality Control Report for FE-237 (1980), New Jersey, Atlantic Ocean,

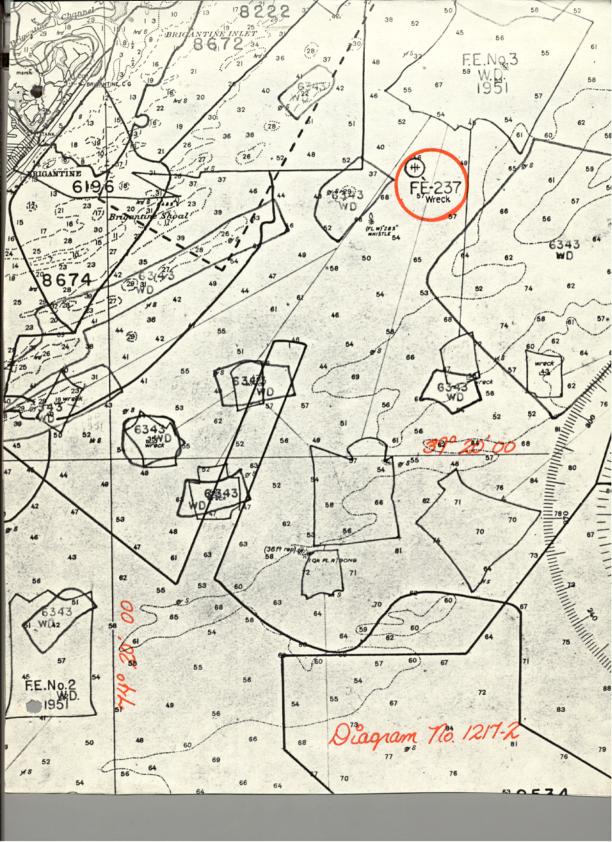
Approach to Brigantine Inlet

A quality control inspection of FE-237 was accomplished to monitor the survey for adequacy with respect to data acquisition, determination of least depths, navigational hazards, smooth plotting, decisions made and actions taken by the verifier, and the cartographic presentation of data. In general, the survey was found to conform to the National Ocean Survey's standards and requirements except as stated in the Verifier's Report.

cc: C351



	16' 00"	74°   14' 00	74°   12' 00"
			39° 26' 00"
		25 wk	
0			39° 24' 00"
		FE-237 APPROACH TO BRIGANTI DECEMBER 1980 SCALE: 1:40,000 SOUNDINGS IN FEET AT	NE INLET
			39° 22' 00"
0			



# NAUTICAL CHART DIVISION

# **RECORD OF APPLICATION TO CHARTS**

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

26	227
76-	

### 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.

CHART	DATE	LO CARTOGRAPHER	REMÄRKS
2318	8-15-83	D.C. Harpin	Full Ban Betere After Verification Review Inspection Signed Via
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12300	8-15-83	D.C. Harpine	Full Par Before After Verification Review Inspection Signed Via
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			Drawing No.
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			7.72