

9354

Diag. Cht. No. 1268

NOAA FORM 76-35A

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

**DESCRIPTIVE REPORT**  
(HYDROGRAPHIC)

Type of Survey ..... HYDROGRAPHIC .....  
Field No. .... 742-20-1-73 .....  
Office No. .... H-9354 .....

LOCALITY

State ..... LOUISIANA .....  
General Locality LAKE BOEGNE .....  
Locality .... MARTELLO CASTLE TO SHELL POINT .....

1973

CHIEF OF PARTY  
Ned C. Austin

LIBRARY & ARCHIVES

DATE ..... 7/16/75 .....

9354

HYDROGRAPHIC TITLE SHEET

H-9354

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.

742-20-1-73

State Louisiana

General locality Lake Borgne

Locality Martello Castle to Shell Point  
Chef Manteur Pass

Scale 1:20,000 Date of survey 1/24/73 - 3/19/73

Instructions dated Sept. 14, 1972 Project No. OPR-468

Vessel Hydrographic Field Party 742

Chief of party Ned C. Austin, CDR NOAA

Surveyed by J. Scott Bradford

Soundings taken by DE-723 Depth Recorder  
Echo sounder, pole

Graphic record scaled by Party personnel

Graphic record checked by Party personnel

Automated Plot by Party personnel  
Protracted by AMC-Calcomp 618

Soundings penciled by Party personnel

Soundings in ~~fathoms~~ feet at MLW ~~MLW~~

REMARKS: Time meridian for hydrography is Greenwich Mean Time.

See Appendage From H-9861 (79-80)

SHEET 742-20-1-73

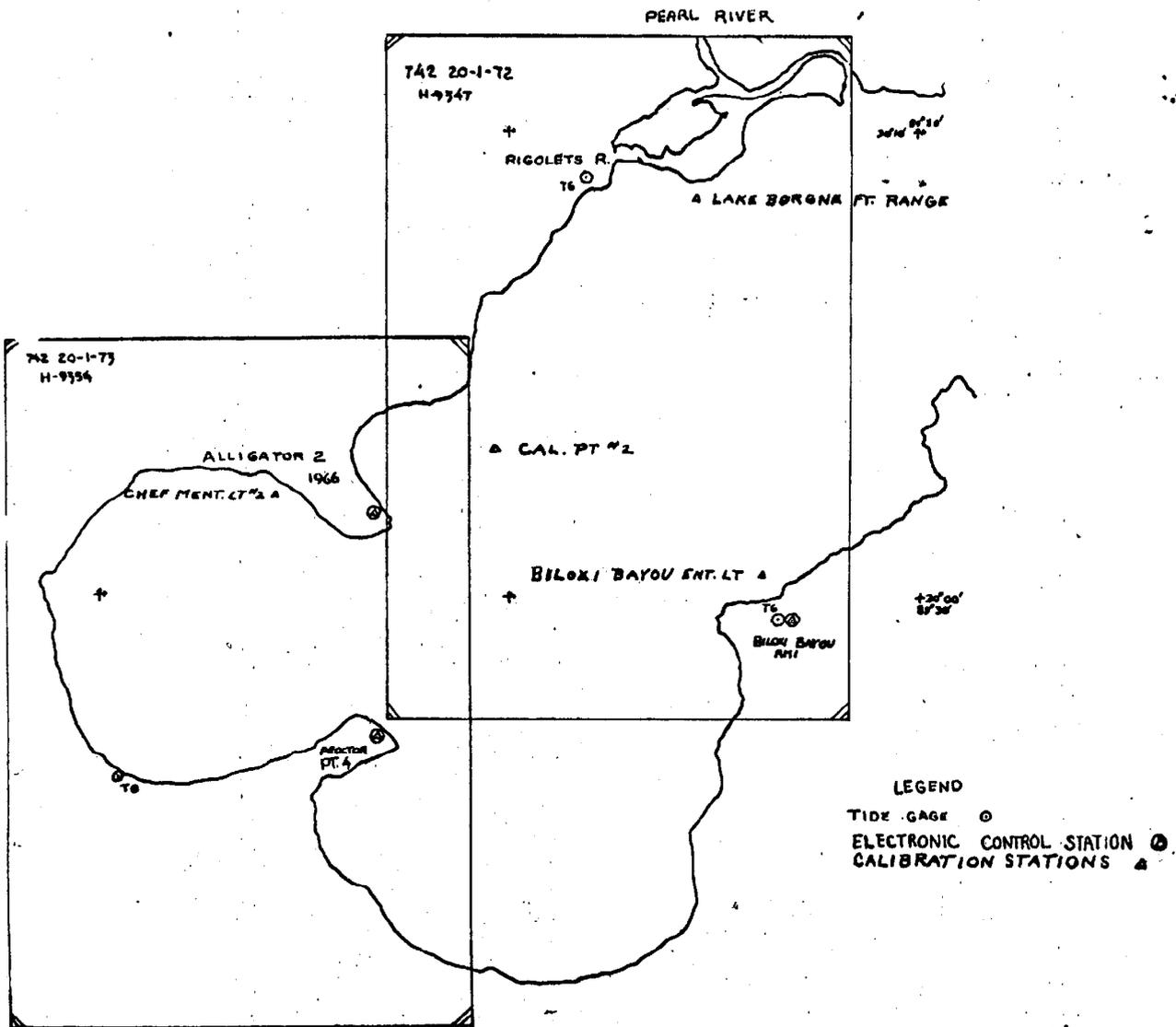
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SHEET LAYOUT  
ORP-466  
Lake Borgne, LA.  
Hydrographic Field Party 742  
Chief of Party Ned C Austin  
1972 - 1973



DESCRIPTIVE REPORT

HYDROGRAPHIC SURVEY H-9354

Field No. 742-20-1-73

A. PROJECT

Sheet 742-20-1-73, (H-9354), Project Number OPR-468, was done in accordance with Project Instructions dated September 14, 1972. ✓

B. AREA SURVEYED

This survey covers the most western part of Lake Borgne, Louisiana in the vicinity of Chef Menteur Pass. The eastern limit is  $89^{\circ} 42.0'$  including Alligator Point. <sup>in int.  $29^{\circ} 57.4'$  from west to  $89^{\circ} 45'$  and then south to shoreline.</sup> This survey makes junction with Sheet H-9347, 742-20-1-72, on the east. ✓  
Hydrography began on January 24, 1973 and ended on March 19, 1973.

C. SOUNDING VESSEL

The following sounding vessels were used on this survey. ✓

<u>LAUNCH</u>	<u>COLOR</u>	<u>VESSEL I.D.</u>
1229	red	742-3
1259	blue	742-2
1247	violet	742-1
Skiff 571	brown	not used

D. SOUNDING EQUIPMENT

Raytheon Fathometer Nos. 1884 and 1888, DE-723 were used on Launch 1229 for all depths greater than four feet. No pole soundings were taken or needed. ✓

Raytheon Fathometer No. 555, DE-723, was used on Launch 1247 for all depths greater than four feet. No pole soundings were taken or needed. ✓

Raytheon Fathometer No. 1885, DE-723, was used on Launch 1259. Only a few soundings were taken because Launch 1259 was used for shoreline and bottom samples.. A 10' sounding pole was used for the majority of the soundings. ✓

Echo sounding corrections were determined from daily bar checks; no trouble was encountered with the sounding equipment. ✓

Fathogram scanning was checked by the hydrographer and was found to be adequate.

#### E. SMOOTH SHEET

The smooth sheet ~~will~~<sup>was</sup> be prepared by Atlantic Marine Center Processing Division, from punched tapes made by party personnel. The smooth sheet projection should be shifted westward, as indicated on the enclosed parameter sheet, to increase the western margin.

#### F. CONTROL

Electronic control (Raydist, <sup>frequency 9306.4 kHz.</sup> ~~was~~) was used for this survey. The shoreline around Alligator Point was done by "See Boatsheet" methods using a 13' Boston Whaler Skiff. These fixes were given dummy positions for logging.

Two pairs of electric control stations were used: PROCTOR - BILOXI and PROCTOR - ALLIGATOR. Shore stations PROCTOR POINT 4 1966 and BILOXI BAYOU RM 1 1972 were used for Positions 1 through 267, (Vol. 1 & 2). Positions 3001 through 3022, (Vol. 6) are dummy fixes using PROCTOR and BILOXI. All positions using PROCTOR - BILOXI were entered in the sounding volume with (BILOXI BAYOU RM 1) on the left.

Beginning with Position 268, (Vol. 2) all other positions are plotted using PROCTOR POINT 4, and ALLIGATOR 2 1966. PROCTOR is recorded in left column in the sounding volume.

#### G. SHORELINE

Shoreline detail for this survey was obtained from Shoreline Manuscript TP-00043, TP-~~00044~~<sup>00042</sup>, TP-00047, and TP-00048. Field edit was done by Photo Party 61. The high water or the low waterline was not defined by hydrography due to the small tide range.

#### H. CROSSLINES

Crosslines were run at 10% of the regular system of hydrography. There is a disagreement of 1-2 feet from Positions 4001 to 4044. The discrepancy ~~will~~<sup>was</sup> be resolved when actual tides are used.

#### I. JUNCTION

A junction was made with 742-20-1-72 to the east. The junctions were in good agreement. The soundings transferred to this survey from 742-20-1-72 are shown on the boatsheet in green ink.

H-9347 (1972-73)  
H-9347 (1972-73)

J. COMPARISON WITH PRIOR SURVEY      See Review Para. 6A.

<u>Feature</u>	<u>Position</u>	<u>Remarks</u>
PSI 52	30° 00.5' 89° <del>48.0'</del> 49.0' ?	✓ <sup>PA</sup> Sunken wreck 1969 is 25 ft. boat ✓ sunk in 9 ft. of water. This wreck was dragged for and not found after 3 hours searching. Retain because of PA position.
PSI 53	29° 58.1' 89° 48.1'	✓ Sunken wreck 1968. This wreck ✓ was dragged for and was not found after 3 hours searching. concu

K. COMPARISON WITH CHART

A comparison was made with Chart C&GS 1268, scale 1:80,000, 13th Edition, dated December 12, 1970. Most charted soundings appear to be a foot shallower than hydrography soundings. Chart C&GS 1268 shows a 70 ft. sounding at Lat. 30° 02.70', Long. 89° 47.80'. The deepest sounding found was <sup>54</sup> ft. (deep in entrance <sup>49</sup> to pass)

The 6' depth curve shows considerable change. When actual tides are used on the boatsheet a more accurate depth curve can be drawn. ✓

L. ADEQUACY OF SURVEY

This was a modified basic survey, regular line spacing was 300 meters as per instructions, line spacing was reduced to a 100 meters in area's requiring development. This survey is considered to be adequate to supersede prior surveys for charting.

*Bayou Dupe Bayoucon 2 ... Pos. no. 5059  
Bayou Dupe Bayoucon 3 ... Pos. no. 5058  
Bayou Dupe Bayoucon 4 ... Pos. no. 5057  
Bayou Dupe Bayoucon 5 ... Pos. no. 5055  
Bayou Dupe Light "1" ... taken from shoreline manuscript 11/10/48.*

M. AIDS TO NAVIGATION

Within the limits of this survey there are 6 fixed aids to navigation. They are all listed in U. S. Coast Guard Light List, Vol. 2, 1971, Pages 214 and 215. They are maintained by the Coast Guard and adequately serve the intended purpose.

*Clif Monteur Pass Light "2" ... taken from shoreline manuscript TP 00043.*

N. STATISTICS

<u>LAUNCH</u>	<u>TOTAL NUMBER OF POSITIONS</u>	<u>MILES OF SOUNDING LINES</u> ✓
1229	954	287.5
1247	157	35.6
1259	89	18.0
Skiff 1	22	2.0

This survey covers 36 sq. nautical miles. 18 bottom samples were taken. ✓

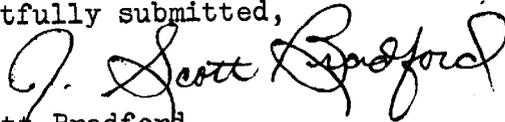
O. MISCELLANEOUS

The wire drag used on this survey was a modified sweep made ✓  
by dragging a cable along the bottom. This sweep consisted  
of two trawl boards, identical to those of shrimp trawlers,  
with approximately 150 foot of cable between them. The drag  
is towed with one launch.

P. REFERENCE TO REPORTS

1. Control Report by Photo Party 61.
2. Electronic Control Calibration Report for OPR-468, 1973.
3. Report of Corrections to Echo Sounding for OPR-468, 1973.
4. HFP-742 Season Report 1973.

Respectfully submitted,



J. Scott Bradford

APPROVAL SHEET TO ACCOMPANY

Hydrographic Survey 742 20-1-73 (H-9354)

The field work, hydrographic records and processing are complete and adequate.

Approved and forwarded,



Ned C. Austin  
CDR, NOAA  
OIC, HFP-742

Control Report for  
Hydrographic Surveys H-9354 & H-9357  
Boat Sheets HFP 742 20-1-73 & 742 20-1-72

Prepared By  
Photo Party 61  
National Ocean Survey  
April 1973

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Control Report for  
Hydrographic Surveys H-9354 & H-9347  
Boat Sheets HFP 742 20-1-73 & 742 20-1-72  
Prepared By  
Photo Party 61  
National Ocean Survey  
April 1973

1. Authority

Hydro support was performed in accordance with project instructions OPR 468HFP742 Lake Borgne, Mississippi dated 08/09/72.

2. Purpose

To provide locations of shore stations and calibration <sup>H-9347</sup> points for Radist control on boat sheets 20-1-72 and 20-1-73, and to provide signals for visual control on boat sheet 20-1-72. Boat sheet preparation was not performed by this party. <sup>H-9354</sup>

3. Locality of Control

The area of control for visual surveys was Little Lake, at the mouth of the Pearl River. The area of control for Radist surveys includes that portion of Lake Borgne west and north of a line from Long Point at the mouth of The Rigolets to Point aux Marchettes, then to Proctor Point.

4. Control

Radist shore station locations consisted of two recovered triangulation stations, and a recovered reference mark.

The four calibration stations were accesable to the survey launches for direct calibration. Their field positions were determined by traverse or intersections from existing triangulation stations.

There were nine stations used for visual control. Of these, two were recovered triangulation intersection stations, five were field positions of intersection stations located during survey operations the previous field season, and two were hydro signals located by HFP 742 during survey operations using sextant fixes on existing control described above.

5. Recommendations

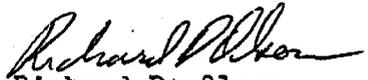
None.

6. Disposition of Data

All field records for all field positions except two used in this survey have been forwarded to Photogrammetry Branch AMC in two separate transmittals of data during the past year. The transmittals involved are: P61-5-73 (to CAM 211 02/16/73) and P61-48-72 (to CAM 5 05/23/72). The two exceptions are the two signals located with sextant fixes by HFP 742 which has all records for those signals.

7. Attached

A signal list is attached including all positions used in the survey of boat sheets HFP 742-20-1-72 and HFP 742-20-1-73.

  
Richard D. Olson  
Lt. NOAA  
Chief, Photo Party 61

Boat Sheets HFP 742 20-1-73 & 742 20-1-72  
Signal List

Triangulation and Field Positions

Rad.	- Radist antenna position	T	- Recovered Tri. Station
Cal.	- Radist calibration position	F	- Field Position,
A	- Used on Boat Sheet 20-1-72		(72) 1972 Field Season
B	- Used on Boat Sheet 20-1-73		(73) 1973 Field Season
		H	- Hydro signal from HFP 742 records

<u>Sta.</u>	<u>Position</u>	<u>Description</u>
142	29 59 46.869 ✓ 89 33 27.470 ✓	Biloxi Bayou Rm1 Rad. F(72) A, B
145	30 01 58.853 ✓ 89 43 19.265 ✓	Alligator 2 1966 Rad. <del>A</del> A, B
146	29 57 26.126 ✓ 89 43 40.410 ✓	Proctor Point 4 1966 Rad. T, A, B
016	30 00 25.303 ✓ 89 33 36.818 ✓	Biloxi Bayou Ent. Lt.1 Cal. F(72)A
123	30 08 23.994 ✓ 89 36 38.985 ✓	Lake Borgne Range Front Light Cal., F(72), A
144	30 03 40.450 ✓ 89 39 31.707 ✓	Calibration Point 2 Cal., F(73), A, B
147	30 02 12.185 ✓ 89 45 48.855 ✓	Chef Menteur Pass Light 2 Cal., F(73), A, B

Note: Alligator 2 is not listed in triangulation data. Potted on Son Sheet as <sup>A</sup> ~~F(72)~~ <sub>CL</sub>  
Visual Signals See Appendix From H-9861 (69-80)

116	30 11 05.170 ✓ 89 34 48.628 ✓	Pearl River Light 25, F(72), A
127	30 09 41.434 ✓ 89 38 32.430 ✓	Bridge Approach Range Front Lt. F(72), A
128	30 09 56.895 ✓ 89 39 01.453 ✓	Bridge Apprch. Rnge. Frnt. Lt. F(72) <sup>A</sup>
129	30 10 03.456 ✓ 89 37 05.408 ✓	Little Lake Light 9, F(72), A
130	30 10 28.472 ✓ 89 36 15.542 ✓	Little Lake Light 13, F(72), A
150	30 09 17.99 ✓ 89 37 50.75 ✓	L & NRR Bridge, Center of Middle Span, T, A
151	30 11 39.295 ✓ 89 32 04.943 ✓	Pear 1952, T, A
500	30 09 43.84 ✓ 89 36 09.82 ✓	Hydro Signal, H
501	30 10 01.95 ✓ 89 35 08.22 ✓	Hydro Signal, H

- just

TC/TI 742-20-1-73

TIME	IDX	TFR	VTI OTI	DAY	VES ID	SHEET
190500	0	0000	0502	024	742300	020173
153000	0	0000	0501	030	742300	020173
153900	0	0000	0501	033	742300	020173
164530	0	0000	0401	036	742300	020173
165000	0	0000	0000	036	742300	020173
183000	0	0000	0601	036	742300	020173
212300	0	0000	0000	036	742300	020173
213100	0	0000	0601	036	742300	020173
191000	0	0000	0501	046	742300	020173
174300	0	0000	0401	047	742300	020173
182500	0	0000	0501	047	742300	020173
5000	0	0000	0601	052	742300	020173
150900	0	0000	0501	053	742300	020173
212000	0	0000	0401	053	742300	020173
214300	0	0000	0501	053	742300	020173
171600	0	0000	0401	054	742300	020173
180100	0	0000	0501	054	742300	020173
151900	0	0000	0601	058	742300	020173
145000	0	0000	0401	059	742300	020173
171500	0	0000	0000	059	742300	020173
2000	0	0000	0401	059	742300	020173
142000	0	0000	0000	068	742300	020173
154415	0	0000	0203	068	742200	020173
154600	0	0000	0000	068	742200	020173
162830	0	0000	0203	068	742200	020173
163030	0	0000	0000	068	742200	020173
163830	0	0000	0203	068	742200	020173
54300	0	0000	0000	068	742200	020173
71000	0	0000	0203	068	742200	020173
172800	0	0000	0000	068	742200	020173
174130	0	0000	0203	068	742200	020173
174230	0	0000	0000	068	742200	020173
203930	0	0000	0203	068	742200	020173
204200	0	0000	0000	068	742200	020173
152000	0	0000	0104	065	742100	020173
203900	0	0000	0000	071	742100	020173
210015	0	0000	0104	071	742100	020173
151500	0	0000	0000	072	742100	020173
153400	0	0000	0104	072	742100	020173
161000	0	0000	0000	072	742100	020173
164000	0	0000	0104	072	742100	020173
190000	0	0000	0000	072	742100	020173

SQUAT AND SETTLEMENT CORRECTION TABLE TAPE

DEPTH	IDX	CORR	TAB NO	UNIT	VESSEL ID	SHEET
000100	0	0004	0001	000	742100	020173
005000	0	0002				
999999	0	0002				
005000	0	0002	0002	000	742200	020173
999999	0	0002				
000050	0	0004	0003	000	742300	020173
000090	0	0002				
000500	0	0000				
999999	0	0000				
000500	0	0002	0004	000	742300	020173
99999	0	0002				
000100	0	0004	0005	000	742300	020173
000500	0	0002				
999999	0	0002				
000100	0	0004	0006	000	742300	020173
000500	0	0002				
999999	0	0002				

ATLANTIC MARINE CENTER

PROJECTION PARAMETERS

POLYCONIC OR MODIFIED TRANSVERSE MERCATOR

1. Project No. OPR-468 4. Requested By \_\_\_\_\_  
2. Reg. No. H-9354 5. Ship or Office \_\_\_\_\_  
3. Field No. 742-20-1-73 6. Date Required \_\_\_\_\_

7. Polyconic  Modified Transverse Mercator

8. Central Meridian of Projection 89 ° 46 ' 30 "

9. Survey Scale: 1:20,000

10. Size of Sheet (check one):

36 x 54  36 x 60  Other  Specify \_\_\_\_\_

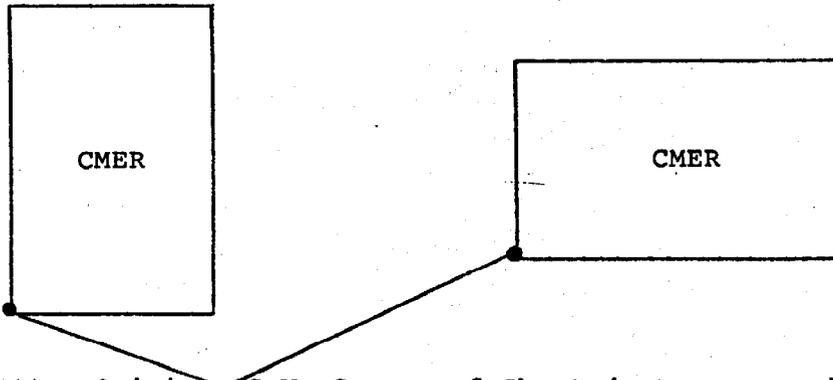
11. Sheet Orientation (check one):

NYX = 1

NYX = 0

N

N



12. Plotter Origin: S.W. Corner of Sheet (not necessarily a grid intersection)

Latitude 29 ° 50 ' 48 "

Longitude 89 ° 52 ' 12 "

13. G.P.'s of triangulation and/or signals attached

14. Material Desired: Tracing Paper  Mylar

Smooth Sheet  Other  Specify \_\_\_\_\_

15. Remarks: The smooth sheet projection should be shifted westward as indicated on this parameter sheet to increase the western margin.

ATLANTIC MARINE CENTER  
APPROVAL SHEET  
FOR  
AUTOMATED SURVEY H- 9354

- A. All revisions and additions made on the smooth sheet during verification have been entered in the magnetic tape records for this survey. A new final position printout has/has not been made. A new final sounding printout has/has not been made.

Date:

7/10/75

Signed:

Jeffrey S. Carlsen

Title: Chief, Verification Branch

- B. The verified smooth sheet has been inspected, is complete, and meets the requirements of the Hydrographic and AMC Manuals. Exceptions are listed in the verifier's report.

Date:

7/10/75

Signed:

Jeffrey S. Carlsen, CDR, USN

Title: Chief, Processing Division

APPENDIS A

TIDE NOTE

Tide reducers for all boat-sheet soundings are from predicted tides at Long Point, Lake Borgne, Louisiana. Pressure recording tide gages were installed for this project. The unverified hourly height tide tape printout for the gage at Martello Castle is included in this report. Verified hourly heights, inferred tides, datum and zoning information will be supplied by Rockville. (See letter to C331 dated April 10, 1973 enclosed.)

ATLANTIC MARINE CENTER  
 VERIFICATION OF SMOOTH TIDES

SURVEY H-9354

PLANE OF REFERENCE	MLW OR MLLW
TIME MERIDIAN	<u>000</u>
HEIGHT DATUM ON STAFFS	1. <u>1.2</u> 2. <u>2.4</u> 3. <u>        </u>
	day 024 after day 024
TIDE STATIONS	TYPE TIME CORR. HEIGHT CORR. *
	GAGE H.W. L.W. H.W. L.W.

1. Martello Castle, Miss.	Ø 29° 56.7 Y 89° 50.1	Bubbler
2.	Ø Y	
3.	Ø Y	

HOURLY HEIGHTS  FROM ROCKVILLE OFFICE  
 FROM FIELD MANIGRAMS VERIFIED BY: \_\_\_\_\_

TIDE ZONING  NOT APPLICABLE  
 BY COMPUTER  
 FROM TWO OR MORE GAGES

LIMITS AND DESCRIPTION OF ZONING METHODS

Zone direct on Martello Castle.

TIDE CORRECTIONS COMPILED  BY COMPUTER  
 MANUALLY VERIFIED BY: R. Gram  
 VERIFIED BY: \_\_\_\_\_

HEIGHT OF MHW ABOVE PLANE OF REFERENCE 2.4

TIDE CORRECTIONS VERIFIED ON SOUNDING PRINTOUT BY: R. Gram

DATE OF VERIFICATION 30 September 1974

\*OR RATIO

EXAMINED & APPROVED

ATLANTIC MARINE CENTER

TIDE NOTE

1. Project No: OPR-468      2. Vessel/Field Unit: HEP-742  
 3. Year: 1973      4. Meridian Time Zone GMT 90  
 5. Tide Station Name: Martello Castle  
 6. Position: Lat. 29 ° 56.7 ' Long. 89 ° 50.1 '  
 7. Plane of Reference:  MLW,  MLLW corresponds to \_\_\_\_\_  
 feet on the tide staff for the period to be supplied by Rockville.  
 8. Hourly Heights:  Standard Gauge, furnished from Rockville.  
 Scaled and logged from field marigrams.  
missing hourly heights to be provided by  
Rockville  
 9. Tidal Zoning:  Not applicable.  
 By two or more gauges automatically zoned.  
 By applying tidal differences and constants  
 for the area(s): a. \_\_\_\_\_

TIME (Hour, Minute)		HEIGHT (Feet)		HEIGHT RATIO (If Applicable)	
High Water	Low Water	High Water	Low Water	High Water	Low Water

b. \_\_\_\_\_

TIME (Hour, Minute)		HEIGHT (Feet)		HEIGHT RATIO (If Applicable)	
High Water	Low Water	High Water	Low Water	High Water	Low Water

c. Include additional areas on separate sheet(s).

10. Remarks: \_\_\_\_\_  
 \_\_\_\_\_

4/29/74

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

TIDE NOTE FOR HYDROGRAPHIC SHEET

Processing Division: Atlantic Marine Center  
Hourly heights are approved for Form 362  
Tide Station Used (NOAA Form 77-12): Martello Castle  
Period: Jan. 26 - Mar. 22, 1973  
HYDROGRAPHIC SHEET: H9354  
OPR: 468  
Locality: Lake Borgne, Mississippi  
Plane of reference (mean ~~lower~~ low water): 2.4 ft.  
Height of Mean High Water above Plane of Reference is 1.4 ft.  
Remarks: Zone direct.

*Need 024 Day  
Martello Castle*

*C. J. Anderson*  
\_\_\_\_\_  
Chief, Tides Branch

## APPENDIX B

### Abstract of Corrections to Echo Soundings

Bar checks were taken every possible day of the survey. However, due to the lack of data gathered on this boatsheet bar checks from both sheets, <sup>H-9347 (1972-13)</sup> 20-1-72 and <sup>H-9354 (1973)</sup> 20-1-73, were combined. The results were averaged using the "0.4 foot rule" (page 182, Hydrographic Manual). A printout of the velocity table tape is presented on the following page as an abstract of bar check corrections.

Also included is a settlement and squat correction table printout indicating the results of tests run at various times during the past year. Because 30 percent of the hydrography on this project was run using one engine, a special settlement and squat test was run in March 1973, using Bertram 1247 with one engine.

### Abstract of Corrections for Distance Measurements

A corrector tape printout follows as an abstract of Raydist calibration correctors.

### Control Report

A list of Raydist control stations and calibration points appears in Photo Party 61's Control Report which is included with this report.

### TC/TI Printout

A TC/TI printout is also included in this report.

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**HYDROGRAPHIC SURVEY STATISTICS**  
**HYDROGRAPHIC SURVEY NO. H-9354**

**RECORDS ACCOMPANYING SURVEY:** To be completed when survey is registered.

RECORD DESCRIPTION		AMOUNT	RECORD DESCRIPTION		AMOUNT	
SMOOTH SHEET & 2-Overlays		1 ea	BOAT SHEETS		1 ea	
DESCRIPTIVE REPORT		1 ea	OVERLAYS		1 ea	
DESCRIPTION	DEPTH RECORDS	HORIZ. CONT. RECORDS	PRINTOUTS	TAPE ROLLS	PUNCHED CARDS	ABSTRACTS/ SOURCE DOCUMENTS
ENVELOPES						
CAHIERS	1 & P/O					
VOLUMES						
BOXES			1 Also Sawtooth Rec.			

T-SHEET PRINTS (List)

SPECIAL REPORTS (List)

**OFFICE PROCESSING ACTIVITIES**

The following statistics will be submitted with the cartographer's report on the survey

PROCESSING ACTIVITY	AMOUNTS			
	PRE-VERIFICATION	VERIFICATION	REVIEW	TOTALS
POSITIONS ON SHEET				1222
POSITIONS CHECKED	130	20	30	
POSITIONS REVISED	16	7	0	
DEPTH SOUNDINGS REVISED	0	63	0	
DEPTH SOUNDINGS ERRONEOUSLY SPACED	11	11	0	
SIGNALS ERRONEOUSLY PLOTTED OR TRANSFERRED	0	0	0	
	TIME (MANHOURS)			
TOPOGRAPHIC DETAILS	2	5	2	
JUNCTIONS	0	1	2	
VERIFICATION OF SOUNDINGS FROM GRAPHIC RECORDS	3	2	2	
SPECIAL ADJUSTMENTS	2	18	0	
ALL OTHER WORK	19	33	28	
<b>TOTALS</b>	<b>26</b>	<b>59</b>	<b>34</b>	
PRE-VERIFICATION BY <b>Johnnie Griffin</b>	BEGINNING DATE May 28, 1974	ENDING DATE June 9, 1974		
VERIFICATION BY <b>Charles Meekins</b>	BEGINNING DATE March 14, 1975	ENDING DATE March 28, 1975		
REVIEW BY <i>Lisa Dunbar</i>	BEGINNING DATE 26 NOV 75	ENDING DATE 9 Dec 75		

*D. J. Romesburg* 24 hrs. 1-12-76  
4/22/76

REGISTRY NO. 9354

The Computer and Excess Sounding Cards for this survey have not been corrected to reflect the changes made to the Computer Card and Excess Card Printouts at this time of the review.

When the cards have been updated to reflect the final results of the survey, the following shall be completed:

CARDS CORRECTED

DATE \_\_\_\_\_ TIME REQUIRED \_\_\_\_\_ INITIALS \_\_\_\_\_

REMARKS:

REGISTRY NO. \_\_\_\_\_

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:

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H-9354

Items for Future Presurvey Reviews

There should be very little change in this area, except for continued subsidence and/or rising ~~tide~~<sup>sea</sup> level and possible storm damage.

<u>Position</u>	<u>Index</u>	<u>Bottom Change</u>	<u>Use</u>	<u>Resurvey</u>
<u>Lat.</u>	<u>Long.</u>	<u>Index</u>	<u>Index</u>	<u>Cycle</u>
295	0895	3	2	50 years
300	0895	3	2	50 years
295	0900	3	1	50 years
300	0900	3	9	10 years

OFFICE OF MARINE SURVEYS AND MAPS  
MARINE CHART DIVISION  
MODIFIED HYDROGRAPHIC SURVEY REVIEW

REGISTRY NO. H-9354

FIELD NO. 742-20-1-73

Louisiana, Lake Borgne, Martello Castle to Shell Point

SURVEYED: January 24 - March 19, 1973

SCALE: 1:20,000

PROJECT NO.: OPR-468

SOUNDINGS: DE-723 Depth Recorders,  
Sounding Pole

CONTROL: Raydist (Range-  
Range), Estimated  
Distances

Chief of Party .....	N. C. Austin
Surveyed by .....	J. S. Bradford
Automated Plot by .....	CALCOMP 618 (AMC)
Verified by .....	C. Meekins
Reviewed by .....	L. Quinlan
.....	December 9, 1975
Cursory inspection made--survey	D. J. Romesburg
processing considered complete .....	January 12, 1976

1. Control and Shoreline

The origin of the control is adequately covered in Part F and the Control Report on page 5 of the Descriptive Report.

The shoreline originates with final reviewed photogrammetric manuscripts TP-00042, TP-00043, and TP-00047 of 1969-1973 and TP-00048 of 1969-1971.

The mean high water line is shown for guidance only, as its true position is shown on the topographic surveys previously mentioned.

2. Hydrography

A. Depths at crossings are in excellent agreement.

B. The small tide range precluded the delineation of the low water line; however, the other standard depth curves were adequately delineated.

C. The development of the bottom configuration and determination of least depths are considered adequate.

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### 3. Condition of the Survey

The field work, survey records, automated plotting, and the Descriptive Report are adequate and conform to the requirements of the Hydrographic Manual and Instruction Manual - Automated Hydrographic Surveys, except as follows:

A. More data in the survey records pertaining to the improvised wire-drag investigations would have been desirable.

B. There were an insufficient number of bottom samples taken on the eastern section of the survey.

C. The control stations were not plotted on the position overlay.

### 4. Junctions

An adequate junction was effected with H-9347 (1972-73) on the east. No contemporary survey joins the present survey on the southeast; however, charted depths and survey depths are in harmony in this area. *See Appendage From H-9861(7980)*

### 5. Comparison with Prior Surveys

H-1055 (1870) 1:40,000

This is the only prior survey that covers the area of the present survey. A comparison between the prior and present survey reveals minor differences in depths of 1-2 feet. Because of the relatively flat bottom in this area, these differences are manifested in a substantial shoreward shift of the 6-foot curve (2,700 meters at one location) on the present survey. The high water line has receded an average of 300 meters except on the north shore of Alligator Point where very little change has occurred. Besides differences that occur as a result of modern versus past survey methods, the two prevailing theories which may account for the changes between the present and prior surveys are subsidence and/or rising sea level in this area.

Several bottom samples were carried forward from H-1055a (1870) to supplement the present survey.

With the additions noted above, the present survey is considered adequate to supersede the prior survey within the common area.

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6. Comparison with Charts 11367 (878-SC), 9th Ed., June 28, 1975  
11371 (1268), 17th Ed., January 18, 1975

A. Hydrography

The charted hydrography originates with the previously discussed prior survey which requires no further consideration, supplemented by the partial application of the boat sheet of the present survey.

Attention is directed to the following:

(1) The sunken wreck, PA, (Presurvey Review Item No. 52) charted in latitude  $30^{\circ}00.5'$ , longitude  $89^{\circ}49.0'$  originates with Notice to Mariners No. 33 of 1969. This item was investigated with an improvised wire drag and was not found. However, inasmuch as the reported position was only approximate, the improvised wire-drag coverage is not considered adequate to disprove the wreck and it should be retained on the chart.

(2) The sunken wreck (Presurvey Review Item No. 53) charted in latitude  $29^{\circ}58.1'$ , longitude  $89^{\circ}48.1'$  was disproved by an improvised wire-drag investigation and can be deleted from the chart.

B. Aids to Navigation

The aids to navigation as positioned on the present survey agree with the charted positions and adequately serve the purposes intended.

C. Controlling Depths

The charted controlling depths for Lake Borgne Canal and Bar Channel originate with information subsequent to the date of the present survey.

The present survey is adequate to supersede the charted hydrography within the common area.

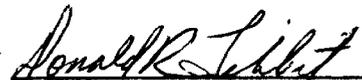
7. Compliance with Project Instructions

The survey adequately complies with the Project Instructions.

8. Additional Field Work

This survey is considered a very good basic survey and no additional field work is recommended.

Examined and Approved:

  
\_\_\_\_\_  
for Chief  
Marine Chart Division

  
\_\_\_\_\_  
Associate Director  
Office of Marine Surveys  
and Maps

Appendage  
(from H-9861 1979-80)

Raw data for these items are included with H-9861 (1979-80)

PSR Item #56 was searched for on JD 46. The platform was reported in 1979 to be a gas pipeline installation ~~40~~<sup>46</sup> x ~~40~~<sup>46</sup> foot structure ~~20 feet high~~<sup>bares 33 feet at HW</sup> on pilings. (See photo ~~and accompanying~~<sup>overlay</sup> ~~46~~<sup>46</sup>)

The platform was located at lat.  $30^{\circ}00'41.9^{\frac{9}{16}}''$ , long.  $89^{\circ}43'03.1^{\frac{2}{16}}''$ W (Pos. #2091) by Range/Range hydrographic means. *Origin CL 987/79*

The hydrographer recommends that this item be charted as a named (New Orleans Public Service Co.) lighted (2 fixed red lights) platform at Pos. #2091. *Concur*

PSR Item #59 was searched for on JD 51 for 1½ hour. The dangerous sunken wreck, PA, was reported in 1977 to be a 24-foot pleasure craft sunk at entrance to Chef Menteur Pass in 30 feet of water. No local knowledge was available. *Origin LNM 31/77  $\phi 30^{\circ}02'30''$   $\lambda 89^{\circ}46'00''$*

Water clarity at the time of the investigation was one to two feet. A chain sweep with 75 feet of chain and 80-foot towline was conducted with no indications of wreckage.

The hydrographer recommends that the dangerous sunken wreck, PA, remain charted because a rigorous chain sweep in two directions with total coverage was not conducted. *Concur*

PSR Item #60 was searched for on JD 51 for one-half hour. The dangerous submerged obstruction, PA was reported in 1979 to be one to two feet below the surface at the intersection of Chef Menteur Pass and Lake Borgne. No local knowledge was available. *Origin LNM 13/79  $\phi 30^{\circ}02'42''$   $\lambda 89^{\circ}46'00''$*

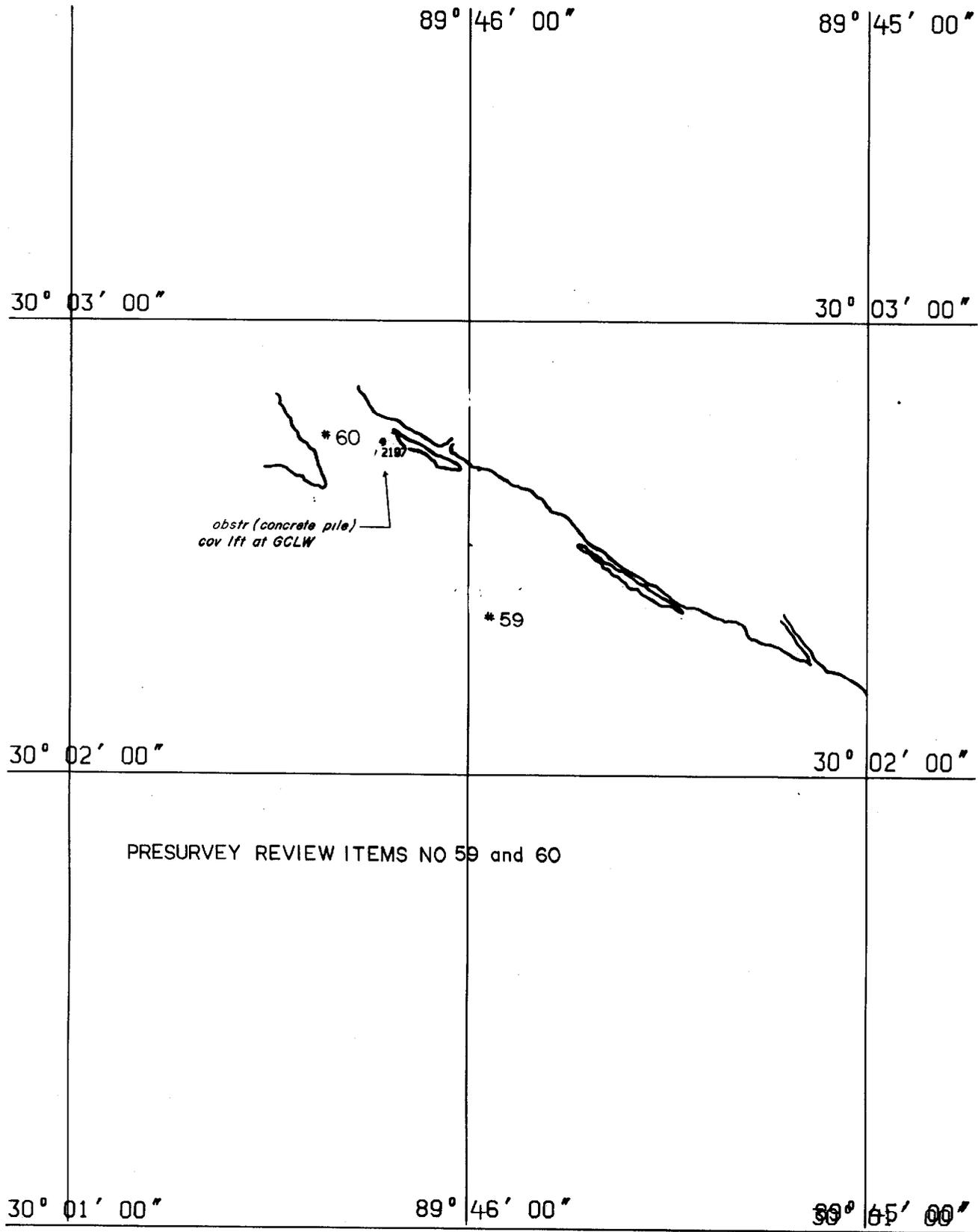
Water clarity at the time of the investigation was one to two feet. A chain sweep with 75 feet of chain and 80-foot towline was conducted.

A one foot diameter concrete piling in 11 feet of water with a least depth of one foot was located at lat.  $30^{\circ}02'44.3''$ N, long.  $89^{\circ}46'12.3''$ W (Pos. #2197). The position was determined by a range from Alligator 2 and distances measured from identifiable points on shoreline. This obstruction is at the edge of a steep channel where depths rise from 47 feet to 4 feet in a distance of ten feet.

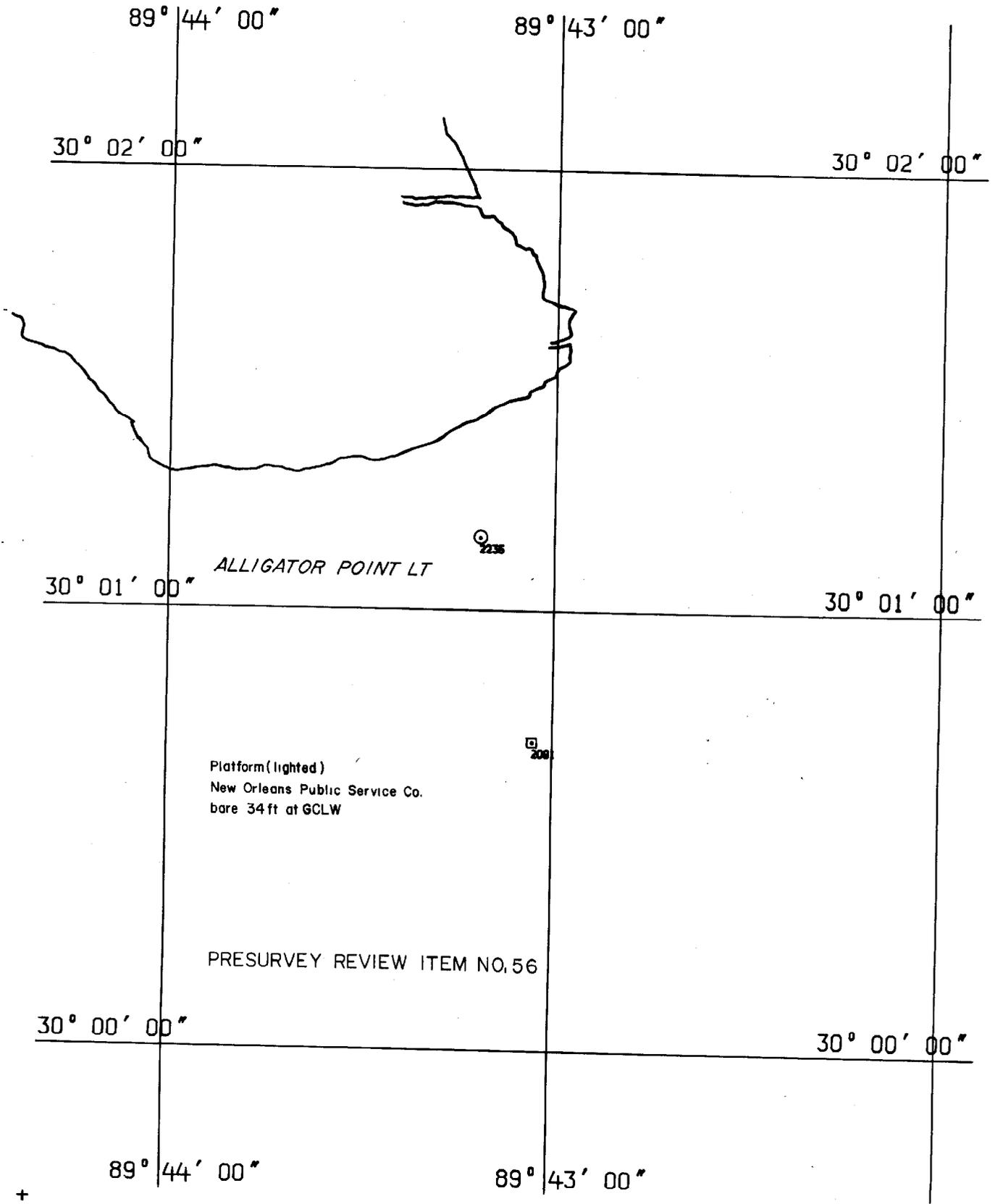
The hydrographer recommends that the dangerous submerged obstruction, PA, be deleted and a dangerous submerged obstruction with a least depth of one foot be charted at Pos. #2197. *(See overlay)*

See the Q.C. Report of H-9861 (79-80) for charting information of Alligator Light.

RWD 4/23/81

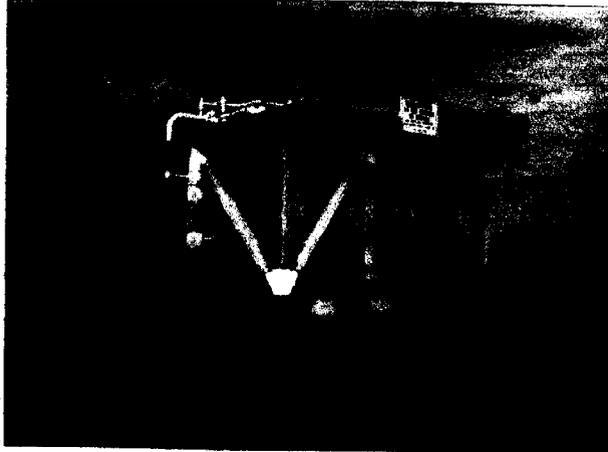


PRESURVEY REVIEW ITEMS NO 59 and 60



Pos. # 2091

PSR # 56



New Orleans  
Public Service Co.  
Gas PLATFORM

OPR-J 236  
H-9861  
HSB-20-5-79



NONFLOATING AIDS OR LANDMARKS FOR CHARTS

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

Replaces C&GS Form 567.

TO BE CHARTED  
 TO BE REVISED  
 TO BE DELETED

REPORTING UNIT  
(If field party, ship or office)  
HSB-HFP#3

STATE  
Louisiana

LOCALITY  
Lake Borgne

DATE  
3/27/80

The following objects HAVE  HAVE NOT  been inspected from seaward to determine their value as landmarks.

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)

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	° / ' "			
J236	HSB-20-5-79	H-9861	1927 North American DATUM					
Light	Proctor Point Light	29 56	47.24	89 42	28.71	ON H-9861 (71-80)	Hydro/R-R 2/25/80 POS 2236	11371
Light	Bayou St. Malo Light 1 <i>(Bayou Malo LIGHT NO. 1) (966) (71-971)</i>	29 53	16.50 16-20- 16.574	89 36	01.77 01-68- 01.57	Use geodetic ← ON H-9861 (71-80)	Hydro/R-R 12/26/79 POS 654	11371
Light	Bayou Yscloskey Light 2	29 52	19.44	89 40	26.28	ON H-9861 (71-80)	Hydro/R-R 2/14/80 POS 2038	11371
Light	Bayou Biloxi Ent. Light 1	29 52	16.89 16-89- 25.30	89 33	57.05 57-05- 36.87	No ← necessity ON H-9861 (71)	Hydro/R-R 2/26/80 POS 2377	11371
Daybeacon	Bayou Yscloskey Daybeacon 4	29 52	06.53	89 40	28.87	ON H-9861 (71-80)	Hydro/R-R 2/14/80 POS 2038	11371
Daybeacon	Bayou Yscloskey Daybeacon 5	29 52	06.82	89 40	27.72	"	Hydro/R-R 2/14/80 POS 2030	11371
Platform	N.O. Public Service Co. GAS Platform	30 00	41.96 41-96- 09.86	89 43	03.16 03-16- 11.56	FS & ITEM 56 ON H-9854 (73)	Hydro/R-R 2/15/80 POS 2091	11371
Light	Alligator Point Light <i>(GAS platform 574 5037 (1971))</i>	30 01	09.86	89 43	11.56	ON H-9854 (73)	Hydro/R-R 2/25/80 POS 2235	11371

11371 11371 11371 11371 11371 11371 11371 11371 11371 11371

