9347

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. ... 742-20-1-72

Office No. ... H-9347

LOCALITY

State ... LOUISIANA

General Locality ... LAKE BORGNE

Locality ... PT. AUX MARCHETTES TO RIGOLETS

1973

CHIEF OF PARTY
Ned C. Austin

LIBRARY & ARCHIVES

DATE ... 7/14/75

☆U.S. GOVERNMENT PRINTING OFFICE: 1974-763-098

9347

FORM C&GS-537 (8-15-69)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

REGISTER NO. H-9347

FIELD NO. 742-20-1-72

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

State Louisiana

General locality Lake Borgne

Locality Pt Aux Marchettes ~~Approaches~~ to Rigolets

Scale 1:20,000 Date of survey 12/11/72 - 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 ~~Joseph E.~~ E. Joseph Miller & Walter H. Piner

Soundings taken by echo sounder, hand lead, pole Echo Sounder, Pole

Graphic record scaled by Party personnel

Graphic record checked by Party personnel

~~Protracted~~ by ~~Party personnel~~ Automated plot by Amc-calcomp 618

~~Soundings penciled by~~ Party personnel

Soundings in ~~fathoms~~ feet at MLW MLLW

REMARKS: Time meridian for hydrography is Greenwich Mean Time.

See Appendage From H-9861 (79-80)

Applied to stels 8/8/75

USCOMM-DC 8272-P62

SHEET 742-20-1-72

TABLE OF CONTENTS

DESCRIPTIVE REPORT

HYDROGRAPHIC SURVEY H-9347

Field No. 742-20-1-72

A. PROJECT

Sheet 742-20-1-72, Project No. OPR-468 was done in accordance with Project Instructions dated September 14, 1972.

B. AREA SURVEYED

This survey covers a section of Lake Borgne, Louisiana and also Little Lake from the southern limits, Lat. 29°58 to Lat. 30°11 on the northern side, and from the eastern limit, Long. 89°33 to Long. 89°42 on the west.

H-9261 (1971)

This survey makes junction with Sheets 742-20-2-71 and 742-10-2-71 to the east and Sheet 742-20-1-73 to the west. and

H-9242 (1971-72) H-9354 (1974) H-9279 (1973) in the north.

Hydrography began on 12-11-72 and ended on 3-19-73.

C. SOUNDING VESSEL

Launches 1229, 1259, and 1247 were used on this survey.

LAUNCH	POSITION	COLOR	VESSEL I.D.
1229	1 - 1477	red	742-3
1259	3001 - 3285	blue	742-2
1247	1478 - 1641	violet	742-1

D. SOUNDING EQUIPMENT

Raytheon Fathometers Nos. 1888 and 1884 were used on Launch 1229 for depths greater than 4 feet. A sounding pole was used for depths less than 4 feet.

Raytheon Fathometer No. 555 was used on Launch 1247 for depths greater than 4 feet. A sounding pole was used for depths less than 4 feet.

Raytheon Fathometer No. 1885 was used on Launch 1259 for depths greater than 4 feet. A sounding pole was used for depths less than 4 feet.

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 found to be adequate.

E. SMOOTH SHEET

The smooth sheet will be prepared by the Atlantic Marine Center Processing Division from punched tapes made by this party.

F. CONTROL

Electronic control (Raydist) was used for most of the hydrography on this survey. Visual control was used in Little Lake, Pos. 3123-3285, Vol. 9. Two pairs of electronic control stations were used:

PROCTOR POINT 4 1966 - BILOXI BAYOU RM 1 1972

PROCTOR POINT 4 1966 - ALLIGATOR 2 1966

Pair, PROCTOR POINT 4 - BILOXI BAYOU RM 1, was used by all launches for Pos. 1-1171 and Pos. 3001-3122. Although PROCTOR POINT 4 is the RED station BILOXI BAYOU RM 1 is recorded first (R_1) in the sounding volumes and data tapes for these positions.

Pair, PROCTOR POINT 4 - ALLIGATOR 2, was in use beginning with Pos. 1172, Vol, 7. PROCTOR POINT 4 is the R_1 station and recorded first in the sounding volumes and data tapes.

Two hydrographic signals in Little Lake were located by this party (Vol. 10, Page 3). These signals were given code numbers 500 and 501.

G. SHORELINE

Shoreline detail for this survey was obtained from Shoreline Manuscript TP-00043 (1969-73), TP-00044 (1969-72), TP-00040 (1969-72), and TP-00049 (1969-71).

Shoreline was run using Launch 1259, however, due to shallow water and a small tide range the high or low water line was not defined.

H. CROSSLINE

Crosslines were run at approximately 10% of the regular system of hydrography. There was a general agreement.

I. JUNCTIONS

Junctions were made with Sheets 742-10-2-71 and 742-20-2-71 H-9262 (1971-72) H-9261 (1971) to the east and Sheet 742-20-1-73 on the west, and Soundings H-9284 (1973) and H-9279 (1973) on the north were in good general agreement. In some sections soundings did not agree, the problem is suspected to be predicted tides.

J. COMPARISON WITH PRIOR SURVEY

Feature	Position	Remarks
PSI 50	30° 09.0' 1/2" 89° 34.7' 1/2"	These submerged snags were dragged for. One submerged snag was found, Pos. 1145, Page 63, Vol. #6. There appeared to be nothing else in this area. Recommend plotting new position of submerge snag and deletion of subm. snags from charts 1268 and 878sc (See review)
PSI 56	30° 08.74' 44.40" 89° 37.92 55.20"	This area was investigated and there are old pilings on the shore, however, nothing was found in the Intracoastal Waterway. Recommend deletion of word "wreckage" from chart.

K. COMPARISON WITH CHART

A comparison was made with Chart C&GS 1268, scale 1:80,000, 13th Edition, dated December 12, 1970 and the soundings were found to be in general agreement, however, in some sections of the sheetssoundings on this survey were found to be deeper. Where this survey indicated deeper water the six foot curve has changed considerably.

A visible wreck was located at Lat. 30° 09.14 N, Long. 89° 34.96' W, (Vol. 6, Page 23, Pos. 996). The bow of this wreck is on ~~shore~~ MHW LINE. The wreck is approximately 45' Long. and bares 3.0'. Recommend removal of PA on charts at this location.

Three separate oil well Protective Structures were located on this survey. These structures lie within the purple dashed area marked "Obstructions, wells and pipelines" on Chart 1268. They appear to be a permanent feature and should be shown on the chart. No other visible or submerged objects were found in the obstruction area. Concur

SUBJECT	POSITION	REMARKS
* (Oil well protective structure) Dolphins	30° 03.68' 41' 89° 39.55' 33'	One Pos. 1155-69 These ~~dolphins~~, surrounding an oil well, bare up to 7.0'. Vol. 6, Page 67. Max. Elev. (5) MHW
** (Oil well protective structure) Dolphins	30° 03.60' 36' 89° 39.13' 08'	Pos. 1161 - PRIV. MAINT. LIGHT ← Deleted during OC of H-9861 (1979-80) RWD ~~These dolphins, surrounding~~ an oil well, bare up to 7.0', Vol. 6, Page ~~69~~. 69 Pos. 1164-70 Max. Elev. (5) MHW

See Appendage from H-9861 (79-80) *- pos. 2309 **- pos 2308

SUBJECT	POSITION	REMARKS
(Oil Well Protective Structure)		Pos. 1399- 1406
Dolphins	30° 03.07' 89° 36.33'	These dolphins surrounding an oil well, bare up to 7.0' MHW Vol. 8, Page 78. Maximum elevation (6) MHW
Light #19	30° 08.80' 89° 33.62'	At the time of this survey this light was destroyed and rebuilt after the survey was ended. Pos. 1642, Vol. II, Page 50, (Position of rebuilt light). Pos. 1642, Vol 2 was rejected by the verifier.
Requested Coast Guard location of LT. #19. 1/12/76		
Tree	30° 04.18' 89° 41.92'	This tree bares 8.0'. Vol. 9, Page 10
6" pile	30° 10.13' 89° 36.20'	This pile bares 1.0'. Vol. 8, Page 13. Uncovers 0.6' at MHW (1) MLW
Tree	30° 10.95' 89° 36.20'	This tree bares 4.0' in 1.8' of water, Vol. 8, Page 13. (3) MHW

L. ADEQUACY OF SURVEY

This survey is considered to be adequate to supersede prior surveys for charting.

M. AIDS TO NAVIGATION

Within the limits of this survey there are 29 floating aids to navigation and 7 fixed aids maintained by the Coast Guard. They are listed in the Light List, Vol. 2, 1971.

N. STATISTICS

LAUNCH	TOTAL POSITIONS	MILES OF HYDRO
1229	1,479	449.6
1259	288	41.3
1247	164	38.4

There were 64 bottom samples taken within the limits of this survey and 63 square miles of hydrography.

O. MISCELLANEOUS

The dragging for PSI 50 was done using trawl boards with 150 ft. chain between.

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,

Elisha J. Miller
Elisha J. Miller

Walter H. Piner
Walter H. Piner

** Several other fixed aids to navigation were not located by either the hydrographer or the photogrammetist. Among these were LT. "19," Lake Borgne Range Rear Light, Rigolets Range Front Light & Rigolets Range Rear light. These however were plotted on the smooth sheet. Thier Positions were taken from T sheets

APPENDIX B

Abstract of Corrections to Echo Soundings

Bar checks were taken every possible day of this survey. 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 to Distance Measurements

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

Signal List

A list of Raydist control stations and calibration points appears in Photo Party 61's Control Report which is included in this report. Also included in this report is a list of visual signals used for control on Little Lake.

TC/TI Printout

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

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

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 points for Raydist 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.

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 Raydist 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

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

The four calibration stations were accessible 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
Cal. - Radist calibration position
A - Used on Boat Sheet 20-1-72
B - Used on Boat Sheet 20-1-73

T - Recovered Tri. Station
F - Field Position,
(72) 1972 Field Season
(73) 1973 Field Season
H - Hydro signal from
HFP 742 records

Sta.	Position						Description
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. T, 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

Visual Signals

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 A,
128	30	09	56.895	89	39	01.453	Bridge Apprch. Rnge. Frnt. Lt.F(72)
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

- gwd

Approval Sheet to Accompany

Hydrographic Survey 742 20-1-72 (H-9347)

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

Approved and forwarded,

Ned C. Austin

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

CAM3-1
2-18-71

ATLANTIC MARINE CENTER

PROJECTION PARAMETERS

POLYCONIC OR MODIFIED TRANSVERSE MERCATOR

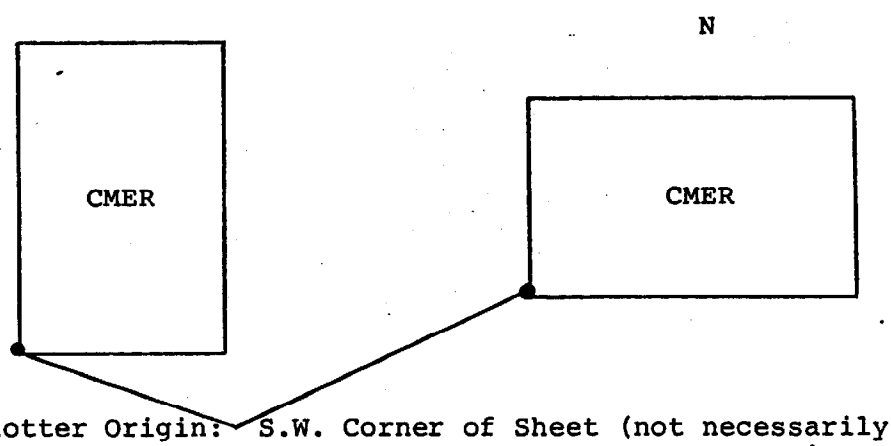
1. Project No. OPR-468
2. Reg. No. H-9357
3. Field No. 742 20-1-72
4. Requested By _____
5. Ship or Office _____
6. Date Required _____

7. Polyconic [X] Modified Transverse Mercator [ ]
8. Central Meridian of Projection 89 ° 37 ' 30 "
9. Survey Scale: 1:20,000
10. Size of Sheet (check one):

    36 x 54 [X] 36 x 60 [ ] Other [ ] Specify _____

11. Sheet Orientation (check one):

    NYX = 1 [X] NYX = Ø [ ]



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

    Latitude 29 ° 57 ' 21 "

    Longitude 89 ° 43 ' 02 "

13. G.P.'s of triangulation and/or signals attached [ ]
14. Material Desired: Tracing Paper [ ] Mylar [ ]

    Smooth Sheet [ ] Other [ ] Specify _____

15. Remarks: _____

CAM3-2
-22-71

ATLANTIC MARINE CENTER

ELECTRONIC CONTROL PARAMETERS

1. Project # OPR-468 2. Reg. # H-9347 3. Field # 742-20-1-72

4. Type of Control: Raydist (Hi-Fix, Raydist, EPI, etc.)

5. Frequency 3306.4 (for conversion of electronic lanes to meters

6. Mode of Operation (check one):

Range-Range [x] Range-Visual [ ]

Range One (R_1)						
Station I.D.	PROCTOR POINT 4	Lat.	29 °	57 '	26.126 "
		Long.	89 °	43 '	40.410 "
Range Two (R_2)						
Station I.D.	ALLIGATOR 2 1966	Lat.	30 °	01 '	58.853 "
		Long.	89 °	43 '	19.265 "

Hyperbolic (3-station) [ ] Hyper-Visual [ ]

Slave One		Lat.	°	'	"
Station I.D.		Long.	°	'	"
Master		Lat.	°	'	"
Station I.D.		Long.	°	'	"
Slave Two		Lat.	°	'	"
Station I.D.		Long.	°	'	"

7. Location of Survey:

Range-Range [x] Imagine an observer is standing at R_1 Station and looking directly at R_2 (check one):

Survey area is to observer's Right [x] A=Ø

Survey area is to observer's Left [ ] A=1

Hyperbolic [ ] Looking from survey area toward Master Station:

Slave One must be to observer's Left;

Slave Two must be to observer's Right.

8. [ ] This form is submitted as an aid in preparing a boat sheet.

[ ] This form applies to all data on this survey.

[x] This form applies to part of the data on this survey.

Vessel EDP #	From Time	From Day	To Time	To Day	Position Numbers (inclusive)		
7423	202500	043	201130	060	1172	to	1477
7421	154500	066	193000	078	1478	to	1641
						to	

CAM3-2
-22-71

ATLANTIC MARINE CENTER

ELECTRONIC CONTROL PARAMETERS

1. Project # OPR-468 2. Reg. # H-9347 3. Field # 742-20-1-72

4. Type of Control: Raydist (Hi-Fix, Raydist, EPI, etc.)

5. Frequency 3306.4 (for conversion of electronic lanes to meters

6. Mode of Operation (check one):

Range-Range [ ] Range-Visual [ ]

Range One (R_1)					
Station I.D. BILOXI BAYOU RM1	Lat.	29 °	59 '	46.869 "
	Long.	89 °	33 '	27.470 "
Range Two (R_2)					
Station I.D. PROCTOR POINT 4	Lat.	29 °	57 '	26.126 "
	Long.	89 °	43 '	40.410 "

Hyperbolic (3-station) [ ] Hyper-Visual [ ]

Slave One				
Station I.D. _____	Lat. ____	° ____	' ____	"
	Long. ____	° ____	' ____	"
Master	Lat. ____	° ____	' ____	"
Station I.D. _____	Long. ____	° ____	' ____	"
Slave Two	Lat. ____	° ____	' ____	"
Station I.D. _____	Long. ____	° ____	' ____	"

7. Location of Survey:

Range-Range [X] Imagine an observer is standing at R_1 Station and looking directly at R_2 (check one):

Survey area is to observer's Right [X] A=Ø

Survey area is to observer's Left [ ] A=1

Hyperbolic [ ] Looking from survey area toward Master Station:

Slave One must be to observer's Left;

Slave Two must be to observer's Right.

8. [ ] This form is submitted as an aid in preparing a boat sheet.

[ ] This form applies to all data on this survey.

[X] This form applies to part of the data on this survey.

Vessel EDP #	From Time	From Day	To Time	To Day	Position Numbers (inclusive)
7422	180000	015	205035	017	3001 to 3122
7423	161000	346	202800	031	0001 to 1170
					to

Verifier; J.Griffin

May 31,1974
Norfolk,Va.

Note ToEdp (AMC)
Survey H-9347 (742-20-1-73)OPR 068.

This branch has completed the verification of the preliminary position overlay for this survey.

We are returning the position printout with all needed changes marked in blue pencil.
COrrector cards were punched by personnel of this office and will accompany this note.

Changes to be made include the following,
Inserts 4.
D.R. 28.
Revised positions 29.

After these changes have been made please furnish this office with a sounding overlay, excessoverlay, level#1 and a preliminary sounding printout. Do not rotate soundings.

The signals should be plotted in the direction indicated:
129 NW
130 W
116 NE
105 W
123 DELETE
124 "
506 "

jg/WLJ

William L. Jonns
Chief Verification Br.

Verifier: Robbie Roberson January 28, 1975

VERIFICATION NOTE TO EDP (AMC)
Survey H-9347 742-20-1-72 OPR-468

Remove signal numbers 129.130 and 500. Remove signal 016 from the sheet. Plot signal number 142 SE of the station. Plot the following stations on the sheet:

Lake Borgne Light 19 (Topo station)	30° 08' 44.75" 89° 33' 34.75"
Lake Borgne Range Rear Light (Topo station)	30° 08' 10.45" 89° 38' 22.75"
Rigolets Range Front Light (Topo station)	30° 08' 48.40" 89° 37' 57.20"
Rigolets Range Rear Light (Topo station)	30° 08' 52.25" 89° 38' 24.25"

The geographic position of the reference station is as follows: (degrees, minutes, seconds)

30° 09' 00."44516
89° 35' 42."07904

A plot deck accompanies the corrector deck. This deck needs a TRIPT and RLAT8 deck.

SPECIAL NOTE: When correcting this survey, the backup tape should be restored and the entire corrector deck run. Do not restore and correct the current tape.

William L. Jonns
Chief, Verification Branch
AMC.

VERIFICATION NOTES

Survey H-9347

General

This appears to be an excellent basic survey. Soundings are in good agreement at crossings and the depth curves adequately delineate the bottom features of the area.

Norfolk, Virginia.
7/8/75

Guy F. Gaffney for
William L. Jonns
Chief, Verification Branch
AMC.

ATLANTIC MARINE CENTER
APPROVAL SHEET
FOR
AUTOMATED SURVEY H- 9347

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: 7-8-75

Signed: [signature]

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: 7-8-75

Signed: [signature]

Title: Chief, Processing Division

APPENDIX 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 heights tide tape printout for the gages at Biloxi Bayou and Catfish Point are 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- 9347

PLANE OF REFERENCE: MLW OR MLLW
TIME MERIDIAN: GMT 0.0
HEIGHT DATUM ON STAFFS:. 1. 1.0 2. 1.2 3. _____ 4. _____

TIDE STATIONS	POSITION	TYPE GAGE	TIME CORR. H.W.	TIME CORR. L.W.	HEIGHT CORR.* H.W.	HEIGHT CORR.* L.W.
1. Catfish Point, Mississippi	φ 30° 08.8' λ 89° 38.1'	Portable				
2. Bayou Biloxi, Mississippi	φ 29° 59.8' λ 89° 33.5'	Portable				
3.	φ λ					
4.	φ λ					

HOURLY HEIGHTS: ☐ FROM ROCKVILLE OFFICE
☒ FROM FIELD MARIGRAMS VERIFIED BY: Rockvil

TIDE ZONING: ☒ NOT APPLICABLE
☐ BY COMPUTER
☐ FROM TWO OR MORE GAGES

LIMITS AND DESCRIPTION OF ZONING METHODS:

TIDE CORRECTIONS COMPILED: ☒ BY COMPUTER VERIFIED BY: GFT
☐ MANUALLY VERIFIED BY: _____

HEIGHT OF MHW ABOVE PLANE OF REFERENCE: 1.2

TIDE CORRECTIONS VERIFIED ON SOUNDING PRINTOUT BY: GFT

DATE OF VERIFICATION: 9/20/74

*OR RATIO

EXAMINED AND APPROVED

8/28/74

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): Catfish Point
Bayou Biloxi

Period: December 2, 1972 - March 6, 1973

HYDROGRAPHIC SHEET: H9347

OPR: 468

Locality: Mississippi Sound

Plane of reference (mean ~~lower~~ low water): 1.0 Catfish Point
1.2 Bayou Biloxi

Height of Mean High Water above Plane of Reference is 1.2 ft.

Remarks: Zone direct on either station.

James R Hubbard
for Chief, Oceanographic Div.

NOAA FORM 76-155
(11-72)

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

SURVEY NUMBER
H-9347

GEOGRAPHIC NAMES

Name on Survey	A ON CHART NO.	B ON PREVIOUS SURVEY NO.	C ON U.S. QUADRANGLE MAPS	D FROM LOCAL INFORMATION	E ON LOCAL MAPS	F P.O. GUIDE OR MAP	G RAND MCNALLY ATLAS	H U.S. LIGHT LIST	K	
CATFISH POINT										1
EAST PASS										2
HOG ISLAND										3
INTRACOASTAL WATERWAY										4
LAKE BORGNE										5
LITTLE LAKE										6
LITTLE LAKE PASS										7
LITTLE RIGOLETS										8
LONG POINT										9
NORTH PASS										10
PEARL RIVER										11
PEARL RIVER ISLAND										12
PTE. AUX MARCHETTES										13
POLECAT BEND										14
RABBIT ISLAND										15
REDFISH BAYOU										16
SAND BAYOU										17
SHELL POINT										18
THE RIGOLETS										19
UNKNOWN PASS										20
BAYOU BILOXI					APPROVED					21
					Chas. E. Harrington - C51x2					22
					Staff Geographer					23
					24 Sept. 1975					24
										25

NOAA FORM 76-155 SUPERSEDES C&GS 197

☆ U.S. GPO: 1972-769-565/516 REG. #6

NOAA FORM 77-27
(9-72)
(PRESC. BY HYDROGRAPHIC MANUAL 20-2, 6-94, 7-13)

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

HYDROGRAPHIC SURVEY STATISTICS

HYDROGRAPHIC SURVEY NO. H-9347

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

RECORD DESCRIPTION	AMOUNT	RECORD DESCRIPTION	AMOUNT
SMOOTH SHEET & 2-Overlays	1	BOAT SHEETS	2
DESCRIPTIVE REPORT	1	OVERLAYS	3 ~~[illegible]~~

DESCRIPTION	DEPTH RECORDS	HORIZ. CONT. RECORDS	PRINTOUTS	TAPE ROLLS	PUNCHED CARDS	ABSTRACTS/ SOURCE DOCUMENTS
ENVELOPES	[illegible]		[illegible]			
CAHIERS	1		1			
VOLUMES	11					
BOXES			1			

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				1931
POSITIONS CHECKED		193	100	
POSITIONS REVISED		40	[illegible]0	
DEPTH SOUNDINGS REVISED		50	10	
DEPTH SOUNDINGS ERRONEOUSLY SPACED		0	0	
SIGNALS ERRONEOUSLY PLOTTED OR TRANSFERRED		0	0	
	TIME (MANHOURS)			
TOPOGRAPHIC DETAILS		8	18	
JUNCTIONS		4	4	
VERIFICATION OF SOUNDINGS FROM GRAPHIC RECORDS		18	2	
SPECIAL ADJUSTMENTS		0	0	
ALL OTHER WORK		150	32	
TOTALS		180	5662	Curs. Insp. 82

PRE-VERIFICATION BY	BEGINNING DATE	ENDING DATE
J. Griffin and R. Roberson	5/1/74	
VERIFICATION BY	**BEGINNING DATE**	**ENDING DATE**
R. Cram	2/3/75	2/6/75
REVIEW BY	**BEGINNING DATE**	**ENDING DATE**
Lisa Quinlan	10/31/75	11/14/75

Curs. Inspection F. SAULSBURY 82hr 3/5/76 Carstens 2 hr 4/19/76

REGISTRY NO. 9347

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. 9347

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 4/22/81 TIME REQUIRED_____ INITIALS JMC

REMARKS:

A dolphin (lighted) was removed and a wellhead was added at φ 30°03.66' λ 89°39.54'. Note appendage dated 4/23/81 RWO

H-9347

Items for Future Presurvey Reviews

There are two maintained channels within the area.

Position Index		Bottom Change	Use	Resurvey
Lat.	Long.	Index	Index	Cycle (Years)
295	0894	3	2	50
295	0895	3	2	50
300	0894	3	2	50
300	0895	3	2	50
301	0894	3	2	50

OFFICE OF MARINE SURVEYS AND MAPS

MARINE SURVEYS DIVISION

MODIFIED HYDROGRAPHIC SURVEY REVIEW

REGISTRY NO. H-9347 FIELD NO. 742-20-1-72

Louisiana, Lake Borgne, Pt. Aux Marchettes to Rigolets

SURVEYED: December 11, 1972 - March 19, 1973

SCALE: 1:20,000 PROJECT NO.: OPR-468

SOUNDINGS: Raytheon Depth Recorders DE 723, Sounding Pole CONTROL: Raydist, Sextant Angles on Shore Signals

Chief of Party	N. C. Austin
Surveyed by	E. J. Miller
	W. H. Pineir
Automated Plot by	Calcomp 618 (AMC)
Verified by	R. Cram
Reviewed by	L. Quinlan
	Date: November 14, 1975
Cursory inspection made--survey processing considered complete	F. P. Saulsbury
	Date: January 15, 1976

1. Control and Shoreline

The origin of the control is adequately covered in part F of the Descriptive Report.

The shoreline originates with final reviewed shoreline manuscripts TP-00040 (1969-72), 1:20,000; TP-00043 (1969-73), 1:20,000; TP-00044 (1969-72), 1:20,000; and TP-00049 (1969-71), 1:20,000.

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, with very few exceptions, are in excellent agreement. The few minor discrepancies were a variance of only 0.3 of a foot.

B. The usual depth curves were adequately delineated, except the low water line which was not defined because of a small tidal range.

Bp 88609-14

T-00040 = Bp-88613
T-00043 = Bp 88616
T-00044 Bp 88617
T-00049 Bp 88622

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

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 as amended by the Instruction Manual - Automated Hydrographic Surveys except as follows:

A. Data on the improvised wire drag of the presurvey review items did not accompany the survey records.

B. The names identifying the lights on the surveys were not included on the survey.

C. Tide correctors, necessary in determining elevations of objects located with detached positions, were not furnished in the final printout. The reviewer determined tide correctors from raw tide data.

D. Some channel deeps were missed in scanning the fathograms, and some that were scanned were excessed and not plotted on the smooth sheet.

E. Dolphins protecting oil wells, discussed in part K of the Descriptive Report, were not shown on the smooth sheet and were added in review. The positionsof two oil wells were corrected in review and were identified as triangulation.

4. Junctions

Adequate junctions were effected with H-9279 (1972) on the north, H-9261 (1971) and H-9262 (1971-72) on the east, and H-9354 (1973) on the west. See Appendage from H-9861(79-80)

5. Comparison with Prior Surveys

A. H-1055c (1870) 1:20,000

Since this survey is superseded by a subsequent survey, it is not discussed in the review. ✓

B. H-1054 (1870) 1:20,000
H-1055a (1870) 1:40,000
H-3960 & Add'l. Work (1916-18) 1:40,000

On survey H-1054 (1870), filling in has occurred at the entrance to North Pass in the vicinity of latitude 30°10.7', longitude

89°36.5' where an 11-foot depth falls in a former 15-foot depth. In the channel area of Little Lake, dredging has increased depths 3 to 9 feet. Shoaling to the south of the channel is due to the dumping of spoil from this channel.

In the south and southwestern segment covered by H-1055a (1870), the present survey indicates general deepening of 1 to 3 feet.

The remaining area of the present survey is covered by H-3960 and Ad.Wk. (1916-18). Present survey depths are generally 1 foot deeper than prior depths. In the area of the Intracoastal Waterway, channel dredging has increased depths 3 to 6 feet.

The marsh shoreline throughout the present survey is now located considerably inland of its former position with a maximum difference of 450 meters occurring in the vicinity of Shell Pt. on the western portion of the survey.

The new inland location of the shoreline, plus a general deepening of depths throughout the present survey area, is attributed to a combination of subsidence and rise in sea level.

The present survey is considered adequate to supersede the prior surveys within the common area.

6. Comparison with Charts 11367 (878-SC), 9th Ed., Aug. 1975
11371 (1268), 7th Ed., Jan. 1975

A. Hydrography

The charted hydrography originates with the previously discussed prior surveys which require no further consideration, supplemented by the partial application of soundings from the boat sheet of the present survey. Attention is directed to the following:

(1) The visible wreck, PA, charted at latitude 30°09.14N, longitude 89°34.96'W, from BP-88617 (1969-72), a copy of TP-00044. This wreck was located by the hydrographer and an exact position was given. Recommend removal of "PA," and charted position be revised to agree with present survey.

(2) The submerged snags (presurvey review item 50), charted at latitude 30°09.0'N, longitude 89°34.7'W, originating with H-1055a (1870), were dragged for with trawl boards

with 150-foot chain between. They were not found; recommend deletion from the chart. There is still one submerged snag that was found in latitude 30°08.78', longitude 89°35.02'; recommend it be plotted to agree with present survey.

(3) The "wreckage" (presurvey review item 56) charted in latitude 30°08.74', longitude 89°37.92' from H-3960 (1916-17) was searched for and nothing was found in the Intracoastal Waterway. Recommend deletion of the danger curve and the word "wreckage" from the chart.

(4) The telephone line charted on 878-SC in the vicinity of latitude 30°09.58', longitude 89°36.5' from a source prior to August 12, 1967, was reported nonexistent by the field editor of TP-00044 in January 1972.

Except as noted above, the present survey is adequate to supersede the charted information within the common area.

B. Controlling Depths

(1) The controlling depth for the Intracoastal Waterway is 12 feet and is published periodically in the U.S. Coast Guard Local Notice to Mariners.

(2) The controlling depth for the improved channel from East Pass through Little Lake Pass is 12 feet, which was reported in November 1964.

Present survey depths do not conflict with the charted information.

(3) The dredged channel charted in the vicinity of latitude 30°10.8', longitude 89°36.18' from Chart Letter 508 of 1963 with a reported depth of 9 feet has apparently filled in to present survey depths of 3 to 7 feet.

C. Aids to Navigation

The charted positions of the aids to navigation adequately mark the features intended.

Lake Borgne Light No. 19 charted in latitude 30°07.5', longitude 89°33.57' from Chart Letter 252 of 1974, originating with TP-00044 (1969-72), was destroyed prior to this survey. It was rebuilt and in place in March 1973. Since there is no available accurate position of the light, it is not plotted on the present survey.

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:

A. J. Patrick
Chief
Marine Surveys Division

R. K. Houston
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 #57 was searched for on JD 51 for one hour. The obstruction was reported in 1977 to be a submerged obstruction, PA marked with plastic jugs. No positive local information was available on this item. A marina owner reported that during 1977, a large partially submerged tree trunk marked with plastic jugs was drifting in the general area of this item. Requiring identification of reported items prior to charting would aid field investigations. Origin LNM 28/77 ϕ 30°00'00" λ 89°39'00"

Water clarity at the time of the investigation was one to two feet. A chain sweep with 75 feet of chain and a 40-foot towline was conducted with no indications of an obstruction.

The hydrographer recommends that the submerged obstruction, PA, remain charted because a rigorous chain sweep in two directions with total coverage was not conducted. Concur Due to the temporary nature of the obstruction (drifting tree trunk) it should be charted as existence doubtful. "ED"

PSR Item #58 was searched for on JD 57 for one hour. The sunken wreck, dangerous PA, was reported in 1977 to be a 20-foot pleasure craft sunk in nine feet of water, marked with a 5-gallon can and a green float cushion. No local knowledge was available. Origin NM 31/77 ϕ 30°03'00" λ 89°36'00"

Water clarity at the time of the investigation was one to two feet. A chain sweep with 75 feet of chain and 40-foot towline was conducted with no indications of wreckage.

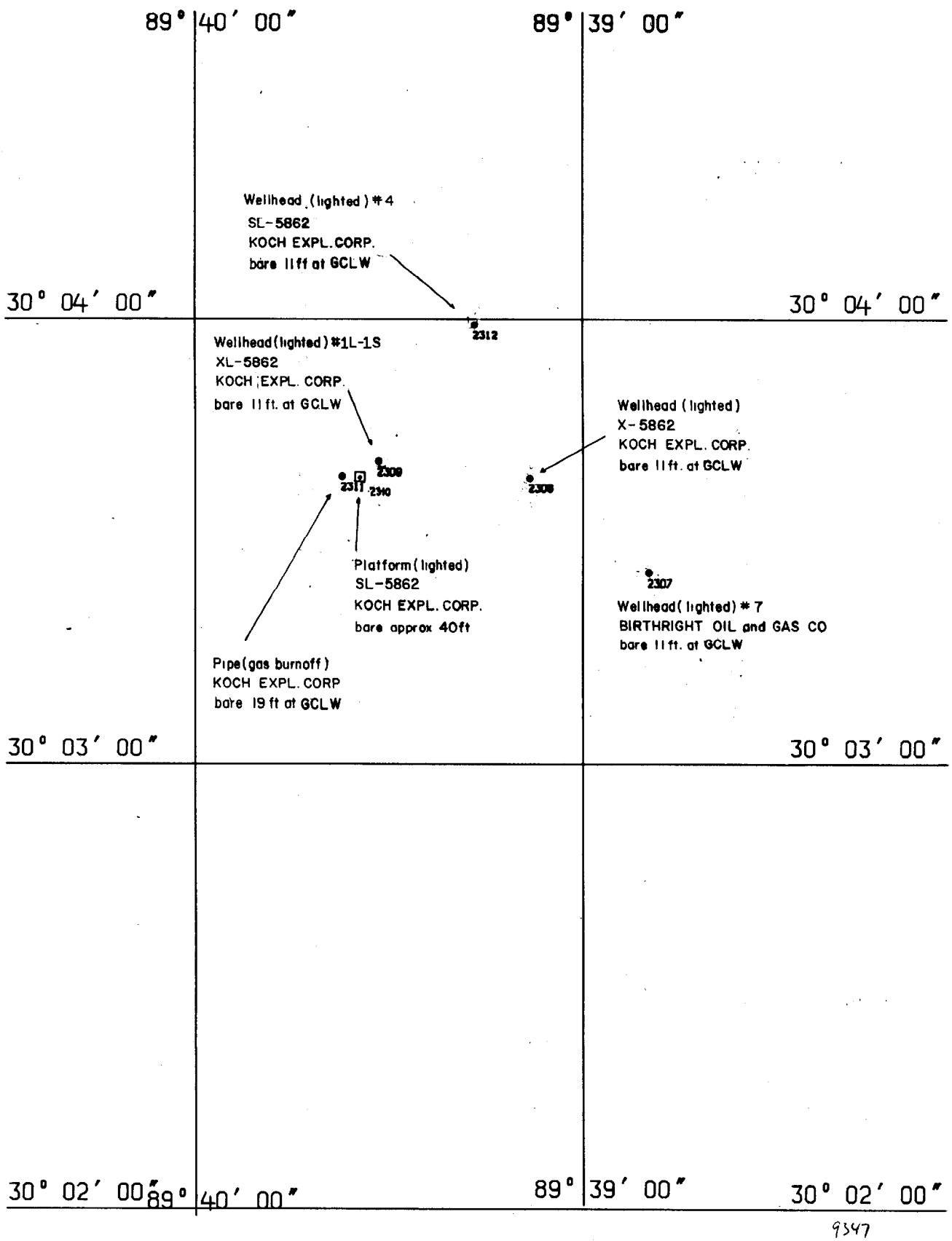
The hydrographer recommends that the dangerous sunken wreck, PA, remain charted because a rigorous chain sweep in two directions with total coverage was not conducted. Concur

8. A group of six oil and gas platforms ~~at lat.~~ in the vicinity of 30°03.5', long. 89°39.2' were located on JD 56. Two are charted as dolphins. Recommend deleting the ~~two~~ one dolphin and charting six platforms (lighted) in this area. (See photos and accompanying overlay)

	POSITION	CARTO	PLOTTED	LATITUDE	LONGITUDE	RECORD
	2307	0	~~499 889~~ -9.0	30 3 25.84	89 38 49.88	112910
	2308	0	~~499 889~~ -9.0	30 3 38.53	89 39 8.29	112920
**	2309	0	~~499 889~~ -9.0	30 3 40.77	89 39 31.73	112930
	2310	0	249 *******	30 3 38.57	89 39 34.50	112940
	2311	0	105 -19.0	30 3 38.75	89 39 37.34	112950
	2312	0	~~499 889~~ -9.0	30 3 59.23	89 39 16.83	112960

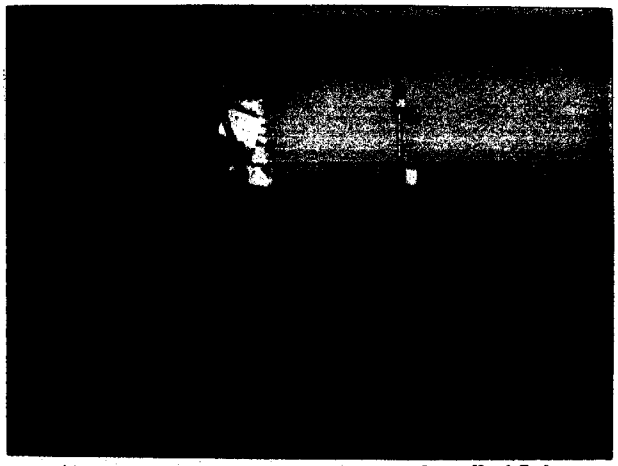
* ELEVATIONS REFER TO HW.
** DOLPHIN (LIGHTED) deleted at this position.

RWD 4/23/81


89° 40′ 00″
89° 39′ 00″
30° 04′ 00″
30° 04′ 00″
Wellhead (lighted) #4
SL-5862
KOCH EXPL. CORP.
bare 11ft at GCLW
2312
Wellhead (lighted) #1L-1S
XL-5862
KOCH EXPL. CORP.
bare 11 ft. at GCLW
2309
2311
2310
Platform (lighted)
SL-5862
KOCH EXPL. CORP.
bare approx 40ft
Pipe (gas burnoff)
KOCH EXPL. CORP
bare 19 ft at GCLW
Wellhead (lighted)
X-5862
KOCH EXPL. CORP.
bare 11 ft. at GCLW
2308
2307
Wellhead (lighted) #7
BIRTHRIGHT OIL and GAS CO
bare 11 ft. at GCLW
30° 03′ 00″
30° 03′ 00″
30° 02′ 00″
89° 40′ 00″
89° 39′ 00″
30° 02′ 00″

9347

Pos. # 2307



Well head
BirThRight Oil
& Gas Co.

OPR-J236
H-9861
HSB-20-5-79

Pos. # 2308

Well Head X-5862
Koch Expl. Corp.

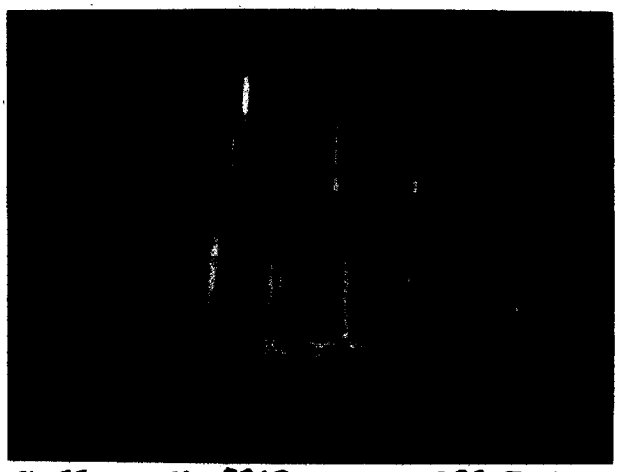
OPR-J236
H-9861
HSB-20-5-79

Pos. # 2309

Well Head XL-5862
Koch Expl. Corp.

OPR-J236
H-9861
HSB-20-5-79

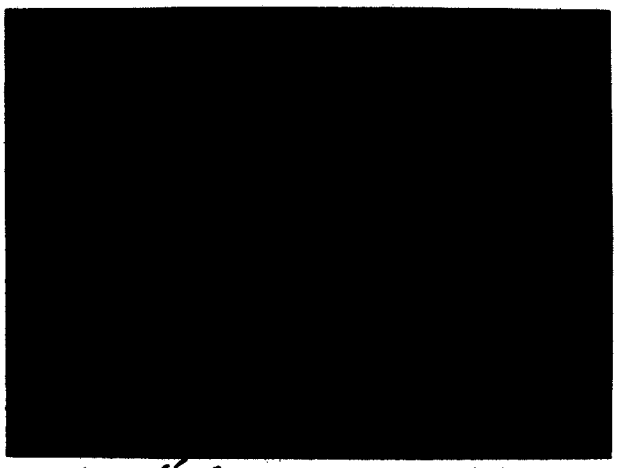
Pos. # 2310



PLATform SL-5862
Koch Expl Corp

OPR-J236
H-9861
HSB-20-5-79

Pos. #2311



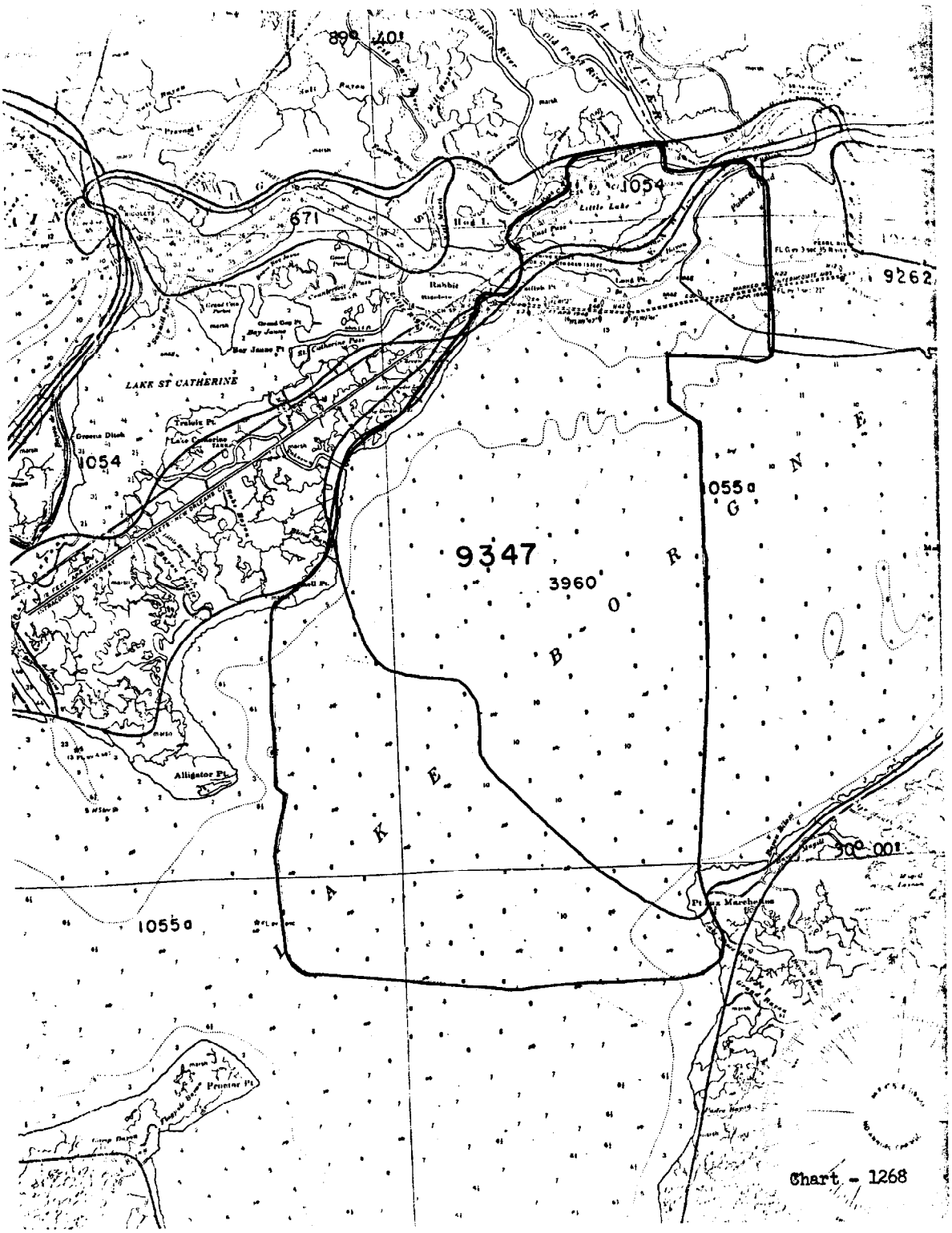
Gas burnoff Pipe
Koch Expl. Corp.

OPR-J236
H-9861
HSB-20-5-79

Pos. #2312

Well head #4
SL-5862
Koch Expl. Corp.

OPR-J236
H-9861
HSB-20-5-79


89° 40'
1054
671
9262
LAKE ST CATHERINE
1054
1055a
9347
3960
1055a
30° 00'
Chart - 1268

FORM C&GS-8352
(3-25-63)

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. H-9347

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
11367	9-11-74	Bill Wanless	~~Full~~ Part ~~Before~~ After Verification Review Inspection Signed Via Before
878-SC			Drawing No. 10
~~878 SC~~	~~1-7-77~~	~~J. OWYANG~~	~~Full Part Before After Verification Review Inspection Signed Via~~
			Drawing No. ~~#11 FULLY APPLIED DESCRIPTIVE REPORT AFTER REVIEW & INSPECTION.~~
			~~Full~~ Part ~~Before~~ After Verification Review Inspection Signed Via
1268	1-7-77	J OWYANG	Drawing No. 39 Part applied in area out side of large scale coverage
878-SC	4-13-77	B. Wanless	Full ~~Part Before~~ After Verification Review Inspection Signed Via
			Drawing No. 11
1268	7-24-79	O. Williams	Full ~~Part Before~~ After Verification Review Inspection Signed Via
			Drawing No. 42 Dw. 1-4-80
11364	1-16-80	D. Wylie	Full ~~Part Before~~ After Verification Review Inspection Signed Via
			Drawing No. 42 PLK 1-21-80
11364	12/7/92	J. HAWKS	Full ~~Part Before~~ After Verification Review Inspection Signed Via
			Drawing No. 51 Metric reason
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.

FORM C&GS-8352 SUPERSEDES ALL EDITIONS OF FORM C&GS-975.

USCOMM-DC 8558-P63