

9868

Diagram Number 1117

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. .... MI-40-2-80 .....

Office No. .... H-9868 .....

#### LOCALITY

State ..... Texas .....

General Locality .. Gulf of Mexico .....

Locality .. Offshore South of Freeport .....

1981

CHIEF OF PARTY

Capt. J.S. Midgley & Capt. R.A. Trauschke .....

#### LIBRARY & ARCHIVES

DATE ..... May 27, 1981 .....

AREA 2

CHART

1411 ✓

1430 ✓

1432 ✓

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**HYDROGRAPHIC TITLE SHEET**

H-9868

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.

MI-40-2-80

State Texas

General locality North Western Gulf of Mexico

Locality South of Offshore, Freeport, Texas.

Scale 1:40,000 Date of survey 14 March - 21 May 1980

Instructions dated 30 January 1980 Project No. OPR-K104-MI-80

Vessel NOAA SHIP MT MITCHELL (2220)

Chief of party and Captain Robert A. Trauschke and Captain James S. Midgley

Surveyed by See Remarks

Soundings taken by echo sounder, hand lead, pole Ross Model 5000 Fineline

Graphic record scaled by F.S., R.W., E.M., U.G., M.M., F.M.F.

Graphic record checked by A.S., R.W., E.M., F.S.

Protracted by N/A Automated plot by Hydroplot System (field)

Soundings processed by N/A Xynetics 1201 Plotter(AMC)  
J. Scott Bradford  
13 April 1981

Soundings in fathoms feet at ██████████ GCLWD

REMARKS: LCDR R.W. Jones, LTJG J. Wilder, LTJG A.N. Shepard, LTJG J.L. Long,  
LTJG R.K. Dutton, ENS. M. Mozgala, ENS. D. Williams, ENS. J. Zabitchuck

DIGITAL RECORDS COMPLETE AT AMC

All times recorded in this survey are Greenwich Mean Time

APPLIED TO STANDARDS

3-18-82

CWJ

A. PROJECT

This survey was carried out in accordance with Project Instructions OPR-K104-MI-80 issued 30 January 1980 and amended by change 1 dated 5 February 1980, and change 2 dated 19 February 1980.

B. AREA SURVEYED

This survey was conducted in the Gulf of Mexico offshore of Freeport, Texas. The limits of the survey are roughly described by lines connecting the following points in a clockwise manner:

<del>28°16.6'N</del>	<del>28° 19.0'</del>	<del>94°48.8'W</del>	95° 20.2'
<del>28°16.6'N</del>	28° 34.6'	<del>95°22.5'W</del>	95° 20.2' ✓
<del>28°36.0'N</del>	28° 34.6'	<del>95°22.5'W</del>	94° 56.0'
28°36.0'N	28° 19.0'	94°48.8'W	94° 56.0'

The survey was conducted between 14 March 1980 (Julian Day 074) and 21 May 1980 (Julian Day 142).

C. SOUNDING VESSEL

Soundings for the survey were obtained by the NOAA Ship MT. MITCHELL (VESNO 2220).

D. SOUNDING EQUIPMENT AND CORRECTIONS TO ECHO SOUNDINGS

The following equipment was aboard the ship during this survey:

<u>Equipment</u>	<u>(VESNO 2220)</u>	<u>Serial Number</u>
Ross Model 5000 Fineline Depth Recorder		1050
" " " " " "		1089
Ross Model 4000 Transceiver		1030
Ross Digitizer		1087

On JD 113, a faulty belt drive motor in recorder #1050 necessitated a switch of depth recorders. Recorder #1089 was used until JD 126 whereupon #1050 was reinstalled.

All soundings were taken with a skeg mounted transducer (antenna distance +32.0 m). All survey records were scanned by trained Survey Department personnel and checked by the officer in charge. Peaks and deeps considered significant that occurred between soundings were inserted and digitizing errors due to sea action were corrected on the electronic corrector tape. ✓

Phase calibration checks were made at frequent intervals. Any necessary adjustments were made and noted in the sounding volume and on the fathograms. Any departures of the trace from the calibration due to phase differences were corrected during the scanning process.

Velocity corrections were obtained from a Nansen cast at the following location:

<u>Cast Number</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Date</u>
2	27°59'48"N	95°05'30"W	March 28, 1980

Transducer depths as a function of draft readings were verified during the 1979-80 drydocking. A copy of this report is included in the survey support data.

A draft of 14.0 feet was applied to all soundings taken by the MT. MITCHELL during the on-line process. With the skeg transducer being 17.5 feet forward of the after draft marks, the transducer corrections were determined from draft readings which were taken at the beginning and end of each trip.

The following corrections were applied for the indicated survey periods:

<u>Date(s)</u>	<u>Draft Corrector</u>
14 March (JD 74)	Bottom Samples
18 March (JD 78)	Bottom Samples
7 April - 9 April (JD 98-100)	-0.1
10 April - 13 April (JD 101-104)	-0.3
14 April - 17 April (JD 105-108)	-0.5
23 April - 28 April (JD 114-119)	+0.1
6 May - 8 May (JD 127-129)	+0.1
20 May - 21 May (JD 141-142)	+0.1

Settlement and squat correctors for the ship were determined on June 12, 1978 (JD 163), at Galveston (Inner Bar Channel), Texas. No significant equipment changes which might have altered the 1978 results were made from June 12, 1978 to the time of this survey. A copy of the field data and the settlement and squat correctors versus vessel rpm's is included in the survey support data. These correctors, along with the draft corrections, are incorporated in the TC/TI tapes with printout of these tapes included in Appendix D.

This survey was conducted using predicted tides based on daily predictions of the reference station, Galveston, Texas (#3290), and applied to off-line data only. The on-line survey was run without tide correctors. It should be noted that predicted tides do not historically correspond well with actual tides in this area, thus all junctions should be re-evaluated after smooth tides are applied. A copy of the request for actual tides in the survey area is included in Appendix B of this report.

#### E. HYDROGRAPHIC SHEETS:

This survey was plotted on 7 paper field sheets by the MT. MITCHELL HYDRO-

E. (continued)

PLOT System.

<u>Number of Sheets</u>	<u>Type</u>	<u>Skew</u>
6	Basic Survey	90, 21, 36
1	Developments	90, 21, 36

This survey was plotted off-line using an electronic corrector tape. Soundings on the field sheets are corrected for draft, predicted tides, initial and digitizing errors, and sound velocity. Sheets are not corrected for smooth tides or settlement and squat. The final smooth sheet will be plotted at the Atlantic Marine Center, Norfolk, VA. All field records and the following tapes have been forwarded to the Atlantic Marine Center:

Master Range/Range Data Tapes  
Electronic Corrector Tapes  
Velocity Correction Tapes  
Parameter Tapes  
TC/TT Tapes  
ASCII Signal Tapes

#### F. CONTROL STATIONS

For purposes of this report, a platform is a large, multilegged structure rising from the ocean bottom that is usually inhabited and/or contains production equipment. A wellhead is a small structure that terminates a well. It usually consists of only one or two vertical pipes with a helicopter pad or a walkway on top of it.

HYDRCTRAC electronic control stations used for this survey were:

<u>Signal Number and Name</u>	<u>Latitude</u>	<u>Longitude</u>
100 (H-82-TX) 1979	28°35'53.645"N	095°58'42.593"W
200 (CAPTAIN) 1978	28°56'05.032"N	095°17'58.364"W

Station 100 was located by personnel from the Operations Division, Atlantic Marine Center, with assistance from MT. MITCHELL personnel. Station 200 was located by Field Party G18 of NGS. Electronic control stations were erected and maintained by ship's personnel. ✓

Circle calibration stations used for this survey were:

<u>Number</u>	<u>Signal Name</u>	<u>Latitude</u>	<u>Longitude</u>
190	BLK-310-L-1	28°50'26.199"N	095°14'22.751"W
212	VIC-PET-2454-1	29°02'58.772"N	094°55'43.654"W

F. (continued)

These wellheads were located using the T-2 intersection method by MT. MITCHELL officers and Photo Party 63 respectively.

<u>Number</u>	<u>Signal Name</u>	<u>Latitude</u>	<u>Longitude</u>
195	SU-BR-A1A	28°20'39.000"N	095°18'15.000"W

This platform's position was verified by circling, following sextant calibration of ship's HYDROTRAC. The position from the U.S. Coast Guard Listing Of Offshore Oil Well Structures was used for all calibration purposes.

Visual calibration stations used for this survey were:

<u>Number</u>	<u>Signal Name</u>	<u>Latitude</u>	<u>Longitude</u>
215	Galveston S.W. Municipal Tank	29°16'01.065"N	94°50'57.460"W
236	S.W. Wellhead	29°15'08.316"N	94°48'10.028"W
237	Center Wellhead	29°15'29.591"N	94°47'34.245"W
238	N.E. Wellhead	29°15'51.418"N	94°46'57.729"W

The tank (#215) was located by personnel from the Operations Division, Atlantic Marine Center. The three wellheads were located using the T-2 intersection method by MT. MITCHELL officers.

#### G. HYDROGRAPHIC POSITION CONTROL

An Odum Offshore HYDROTRAC system operating at a frequency of 1718.590KHz in range-range mode was used to provide positioning control for this survey. The equipment serial numbers used are as follows:

<u>Vessel or Shore Station</u>		<u>Serial Number</u>
VESNO 2220	Master Drive Unit	122
	Linear Transmitter	537
	Receiver Model 700	327
		328
	Coupler	134
	Sawtooth Recorder	A-175
	Interface	102
Station 100	Slave Drive Unit	226
		215
	Linear Transmitter	536
	Coupler	133
	Power Supply	752

G. (continued)

Station 200	Slave Drive Unit	215
		214
		227
	Linear Transmitter	539
	Coupler	131
	Power Supply	751

HYDROTRAC calibration was accomplished 8 times off Galveston, Texas using three point sextant fixes and comparing observed HYDROTRAC range values with computed values obtained from the Hydroplot Calibration Program RK 561. Only those fixes with an inverse distance of less than 5.0 meters were used on these calibrations. Initial calibrations were also done by the circling method, described on page 4-28 of the Hydrographic Manual, 4 times using platform "SU-BR-A1A" (signal #195) and 3 times using well-head "BLK-310-L-1" (signal #190).

Numerous HYDROTRAC equipment failures occurred during the second and third cruises of the survey. On the second cruise, JD 98-108, the partial lane correctors from visual calibration off Galveston, Texas on JD 96 were used for hydrography until JD 98 (pos. 054, GMT 184320) at which time P1 gained 3 lanes (station 100). The new corrector was applied on-line and verified by a subsequent circle calibration. On JD 99 (0208 GMT) station 100 (P1) went off the air. Platform SU-BR-A1A was circled for the initial calibration, following approximately 10 hours of down time, as a visual calibration was not possible off Freeport, Texas. These correctors were used until JD 100 (0552 GMT) when a number of lane jumps took place on station 200 (P2). These lane jumps took place during a turn, so that the hydrography run after the turn and prior to the next calibration was discarded. ✓

Recalibration took place using platform SU-BR-A1A after installation of a new receiver on the ship. Resultant correctors were used until JD 101 (1011 GMT) when station 200 (P2) went off the air. No hydrography was run preceding this malfunction until after the next calibration. Following the installation of a new card in the ship's receiver by a HYDROTRAC technical representative, initial calibration was done by circling wellhead BLK-310-L-1. Hydrography was run with these correctors until JD 103 (1800 GMT), when P2 again went off the air. Again, no hydrography was run until after the following equipment change and recalibration. A new slave drive unit was installed at station 200 (P2), and initial calibration took place at well head BLK-310-L-1. Resultant correctors were used until JD 104 (1550 GMT) when P2 went down again. As before, no hydro was run until after another slave drive unit was installed at station 200 and an initial calibration was done at wellhead BLK-310-L-1. ✓

These correctors were applied until JD 106 (2153 GMT), at which time P1 went off the air while running main scheme. Position 1457 was rejected. ✓

No equipment alterations were made, and initial calibration was done at platform SU-BR-ALA on JD 106 (2330 GMT). Resultant correctors were used until JD 107 (1802 GMT) when P1 again went off the air. Positions 1671-1673 were rejected. After alteration of the slave drive unit at station 100 (P1), initial calibration was again performed at platform SU-BR-ALA. These correctors were applied until the end of the cruise and visual calibration off Galveston, Texas on JD 108 (1500 GMT). During the subsequent inport (JD 109-112), slave drive unit changes were made at both shore stations.

Partial lane correctors for the third cruise, JD 113-119, were obtained by visual calibration off Galveston. On JD 117 (0800 GMT), lane jumps occurred on the P1 rate during the turn after position 2947. The wrong whole lane correction was input on-line and hydrography was run until 1234 GMT the same day. The correct whole lane count was then arrived at by a circle calibration at platform SU-BR-ALA. Positions 2948-3005 were rejected and rerun with the proper correctors. Final visual calibration for the trip was done off Galveston, Texas on JD 119 (1030 GMT).

For cruise #4 (JD 126-129) and cruise #5 (JD 141-142), visual calibrations off Galveston, Texas were used for initial and final correctors. No lane jumps or equipment failures took place on these final two trips.

The following table is a summary of change dates, equipment involved, and location of the equipment changes made during this survey:

<u>Location</u>	<u>Equipment</u>	<u>Serial No.</u>	<u>Dates (JD) In Service</u>
Station 100	Slave Drive Unit	226	74 - 112
		215	112 - 142
Station 200	Slave Drive Unit	215	74 - 98
		214	98 - 103
		215	103 - 105
		227	105 - 109
		214	109 - 142
Vesno 2220	Receiver	327	74 - 100
		328	100 - 142

In addition to the calibrations described above, the whole lane count was checked 11 times at platform SU-BR-ALA, one time at wellhead BLK-310-L-1, and one time at wellhead VIC-PET-245 using the circling technique.

While using HYDROTRAC, the whole lane counting was constantly monitored by comparing the navigation interface readout with a running count on the sawtooth recorder and annotating the sawtooth record. All lane

jumps detected on-line were corrected by entering the appropriate whole lane correctors into the HYDROPLOT controller as soon as possible. Off-line, the correctors were applied to all affected soundings via the electronic corrector tape. Lane jumps which occurred during this survey are described above. An abstract of all calibration data is included with the records accompanying this report.

H. SHORELINE

There was no shoreline within the limits of this survey.

I. CROSSLINES

Crosslines were run between approximately 45 degrees to 90 degrees to the main scheme sounding lines. Crossline mileage amounted to 6.9% of the main scheme lines. All crossline soundings agree with mainscheme soundings within 0-2 feet.

J. JUNCTIONS See Section 5 of Verification Report

This survey junctions with the following surveys:

<u>Survey Number</u>	<u>Date</u>	<u>Scale</u>
H-9867	1980	1:40,000
MI-40-3-80	1980	1:40,000
MI-40-4-80	1980	1:40,000

The junction with H-9867 is to the south, MI-40-3-80 to the north and west, and MI-40-4-80 to the north and east. The latter two surveys were without registry numbers and not yet submitted as of this report. 99.3% of the soundings agreed within 0-3 feet between this survey and H-9867. The remaining soundings agreed to within 4 feet. Neither of these surveys had smooth tides applied at the time of comparison, which will resolve the differences.

K. COMPARISON WITH PRIOR SURVEYS See Section 6 of Verification Report

The following prior surveys were within the area of this survey:

<u>Survey Number</u>	<u>Date</u>	<u>Scale</u>
H-6404	1938	1:80,000
H-6291	1937	1:80,000
H-6398 <sup>a</sup>	1938	1:40,000

Comparison with these surveys is good, with all of the soundings agreeing to within ±1-2 feet

L. COMPARISON WITH THE CHART See Section 7 of Verification Report

<u>Chart Number</u>	<u>Edition</u>	<u>Date</u>	<u>Scale</u>
11300	22	June 2, 1979	1:460,732

Soundings on 11300 are in fathoms, this survey was done in feet. Comparison with the chart was good, with all soundings agreeing to within  $\pm 0.5$  fathoms. The following items were investigated for comparison:

The following positions are corners of an area investigated for numerous spikes and deeps:

28°28'24"N	95°08'30"W
28°28'24"N	95°06'36"W
28°31'12"N	95°06'36"W
28°31'12"N	95°08'30"W

This area was investigated with 100 meter North - South line spacing (Development #1) and the following developments:

Development #2 was a star pattern centered on a series of shoal features found while running main scheme (Pos. 3311, 2232+1, 3282+1 and 2203). Each showed a ~~depth of 107 feet while rising~~ <sup>of about</sup> 6-8 feet above the general surrounding depths. ~~A least depth of 107 feet~~ <sup>corrected</sup> ~~was found on Development #1~~ (Pos. 3520; Lat. 28°30'01"N; Long. 95°07'25"W). It is recommended that these be charted as a narrow ridge with a least depth of 10~~7~~ feet. This depth was transferred to the main scheme plot. <sup>present survey</sup> ~~chart as shown on~~

Developments #3 and #9 were star patterns over a spike feature found while running main scheme (Pos. 3239+3; Lat. 28°30'28"N; Long. 95°07'58"W). It rose 10 feet above the surrounding depths and had <sup>corrected</sup> a least depth of 10~~3~~ feet. No shoaler depths were found during development. It is recommended that this feature be charted as an isolated peak as found on the main scheme plot. ✓

Development #5 began as a single star pattern over a shoal feature found while running 100 meter splits (Pos. 3523+4). This spike was found at the edge of a scoured area with <sup>corrected</sup> a least depth of 10~~3~~ feet while rising 8 feet above the surrounding depths (Pos. 4599+3; Lat. 28°30'18"N; Long. 95°07'10"W). During the development, a shoaler spike was found 1/2 nm. north on the northern edge of the same scour. A second star pattern determined that this second spike rose 10 feet above the surrounding depths to <sup>corrected</sup> a least depth of 10~~0~~ feet (Pos. 4590+4; Lat. 28°30'32"N; Long. 95°07'10"W). Due to the close proximity of these two features only the shoaler second spike was transferred to the main scheme plot. It is recommended that the shoaler peak be charted as an isolated peak.

Development #6 was a star pattern over a shoal feature found on main scheme (Pos. 3491). <sup>corrected</sup> The spike was found to rise 7 feet above the surrounding depths to a least depth of 10~~4~~ feet (Pos. 4602+4; Lat. 28°30'06"N; Long. 95°07'17"W). This depth has been transferred to the main scheme plot. It is recommended that it be charted as an isolated peak.

Development #7 was a star pattern over a shoal feature found while running 100 meter splits (Pos. 3516+2). <sup>3</sup> The feature rose 20 feet above the surrounding depths to a <sup>corrected</sup> least depth of 92 feet (Pos. 4611+3; Lat. 28°30'38"N; Long. 95°07'33"W). This depth has been transferred to the main scheme plot. It is recommended that it be charted as an isolated peak. ✓

pos 4633 + 3 row depth 77.4

concur

Development #10, like development #5, was two star patterns over spikes found on developments #5 and #7 (Pos. 4599+3 and Pos. 4613+2 respectively). No shoaler depth was found on the former spike. The <sup>corrected</sup> latter spike was found to rise 11 feet above the surrounding depths to a least depth of 101 <sup>93</sup> feet (Pos. 4651+3; Lat. 28°30'38"N; Long. 95°07'31"W). It is recommended that this feature be charted as an isolated shoal feature. }

This least depth was not transferred to the main scheme plot due to its 93 ft depth close proximity to the 20 foot spike of Development #7. ✓

shown on smooth sheet from development #7

A 1:10,000 scale sheet of this development area has been included with this survey for the sake of clarity. Only the least depths obtained from each development were plotted with the main scheme lines in this area. }

Other items that were developed on this survey are:

Development #4 was a star pattern run over a scoured area with a peak in the center (Pos. 2407+<sup>6</sup>β; Lat. 28°33'24"N; Long. 95°09'09"W). No shoaler depth was found during development and the peak does not rise above the surrounding depths outside the scour. The least depth was 100 feet as found on the main scheme plot. It is recommended that this area be charted as contoured on the main scheme plot.

Development #8 consisted of a star pattern and axis line run over a trough-like feature (Lat. 28°32.7'N; Long. 95°14.9'W). The development was run to further delineate the irregular nature of the bottom and to check for any possible shoaling which may have been associated with the scour. No shoal features were encountered and it is recommended that the area be charted as contoured on the main scheme sheet. ✓

concur

Development #11 was a series of 2 east-west axis lines and 1 north-south section line run over a trough feature (Lat. 28°25.2'N; Long. 95°05.8'W). No significant shoal feature was found and it is recommended that the area be charted as plotted on the main scheme sheet. ✓

concur

Development #12 was a star pattern over a shoal indication found on main scheme (Pos. 2214+<sup>2</sup>λ). When developed, it was found to rise <sup>corrected</sup> 3 feet above the surrounding depths to a least depth of 111 feet (Pos. 4677+3; Lat. 28°21'18"N; Long. 95°07'35"W). It is recommended that it be charted as an isolated peak. The least depth was transferred to the main scheme plot. smooth plotted at pos. 2214+3. ✓

concur

Development #13 was a star pattern over an irregular trough with a shoal feature at its edge. During development, a group of spikes was found, the shoalest of which rose 9 feet above the trough, and 3 feet above the depths outside the trough. The <sup>corrected</sup> least depth was 111 feet (Pos. 4682+<sup>4</sup>λ; Lat. 28°20'34"N; Long. 95°09'38"W). It is recommended that it be charted as an isolated peak as transferred to the main scheme plot. ✓

concur

Development #14 consisted of an axis line and a radial line over a ridge that ran in an E.N.E. - W.S.W. direction. This shoal rose 4 feet above the surrounding 119 foot depths to a <sup>corrected</sup> least depth of 119 feet (Pos. 2507+4; Lat. 28°21.7'N; Long. 95°03.9'W). No shoaler depths were found during development. It is recommended that this shoal area be charted as found on the main scheme plot. ✓ CONCUR

Development #15 was a single line run over a 2 feet shoal feature found in 124 feet of water (Pos. 3736+7; Lat. 28°20.9'N; Long. 95°01.1'W). No minor shoaler depth was found. It is recommended that this item be charted <sup>corrected</sup> as an isolated peak with a least depth of 124 feet as found on the main <sup>bottom</sup> irregularity scheme plot.

Development #16 consisted of 3 axis lines over an east-west ridge that rose 2-4 feet above the surrounding depths to a <sup>corrected</sup> least depth of 119 feet (Lat. 28°22.8'N; Long. 95°00.3'W). No shoaler depths were found. It is recommended that this area be charted as found and contoured on the main scheme plot. ✓ CONCUR

Development #17 <sup>94°?</sup> was a star pattern run over a small scour area (Lat. 28°23.5'N; <sup>95°</sup>57.5'W). No shoal features were found. It is recommended that this area be charted as found on the main scheme plot. ✓ CONCUR

Development #18 was a star pattern over a 7 foot mound that rose to a <sup>corrected</sup> least depth of 121 feet (Pos. 4111+4; Lat. 28°24.8'N; Long. 94°56.5'W). No shoaler depths were found. It is recommended that this feature be charted as found on the main scheme plot.

Development #19 consisted of 3 axis lines and 1 radial line over a N.E. - S.W. ridge that rose 3 feet above the surrounding depths to a least depth of 124 feet (Pos. 4317+2; Lat. 28°24.2'N; Long. 94°58.6'W). No shoaler depths were found. It is recommended that this area be charted as found and contoured on the main scheme plot. ✓ CONCUR

*Two 125 foot sdgs plotted on smooth sheet fall in vicinity.*

Development #20 consisted of 2 axis lines and 1 radial line over a N.E. - S.W. ridge that rose 5 feet above the surrounding depths to a least depth of 120 feet (Pos. 4442+2; Lat. 28°25.3'N; Long. 95°00.4'W). No shoaler depths were found. It is recommended that this area be charted as found and contoured on the main scheme plot. ✓ CONCUR

Development #21 was single line over a possible 7 feet obstruction detected in 113 feet of water (Pos. 3956+2; Lat. 28°29.8'N; 94°58.4'W). The development was run over the same main scheme line where the item was originally found. No further evidence of the item was detected and it is believed to be marine life. It is recommended that this item not be charted. ✓ CONCUR

Should requirements of the Texas Offshore Oil Platform mandate further development, it is recommended this be accomplished by wire drag survey. The MT. MITCHELL plans no further development.

The position of charted platform ("SUPCO-BRAZOS BLK-AIA") was verified on JD 078 using the circling technique. The calculated position was <sup>(pos. SD17 (Field no. 17))</sup> 28°20'29.252"N and 95°18'15.420"W. The platform's charted position (published in the Coast Guard Listing of Offshore Oil Structures) is 28°20'29"N and 95°18'15"W. It is recommended that this item be retained as charted. The designation given to this platform and used elsewhere in this report is platform "SU-BR-AIA". ✓ concur

The charted position approximate wreck (Lat. 28°24'N; Long. 95°18'W) was not a pre-survey review item. No indication of an obstruction was observed on the fathogram in the immediate area and thus no further development was performed. It is recommended that this item not be retained for charting.

*do not concur*

*see Verification Report Section #7*

M. ADEQUACY OF THE SURVEY

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

N. AIDS TO NAVIGATION

There were no fixed or floating aids to navigation within the limits of this survey.

O. STATISTICS

Linear nautical miles of hydrography	3077.1
Linear nautical miles of crosslines	211.5
Linear nautical miles of development	123.0
Total linear miles of hydrography	3411.6
Total miscellaneous miles	786.8
Total miles run	4198.4
Square miles of hydrography	307.0
Total number of positions	4751
Nasen casts	1
Bottom Samples	15

P. MISCELLANEOUS

The electronic control failures experienced in the slave drive units (SDU) and the ship's receiver were apparently the result of incomplete modifications introduced during the equipment's winter overhaul by Odom Offshore. The problems were:

1. New automatic phase control (APC) boards were installed in the SDU's. Each APC utilized a particular integrated circuit which failed to function as designed. Replacement with another brand of chip remedied the problem.

2. The receiver's discriminator board was also replaced with one which contained the same faulty IC. Resistor changes were made to restore normal operation.

3. The receiver's existing digitizer boards were apparently incompatible with the other modifications made. Replacement with new boards solved this problem.

Q. RECOMMENDATIONS

None

R. AUTOMATED DATA PROCESSING

The following HYDROPLOT Programs were used to acquire and process the survey data:

RK 111 Range/Range Real Time Plot	1-30-76
RK 201 Grid, Signal, and Lattice Plot	4-18-75
RK 211 Range/Range Non Real Time Plot	1-15-76
RK 300 Utility Computations	2-5-76
RK 330 Data Reformat and Check	5-4-76
RK 360 Electronic Corrector Tape Abstract	2-20-76
RK 530 Velocity Correction Computations	5-10-76
RK 561 IH/R Geodetic Calibration	5-19-75
RK 602 Extended Line Oriented Editor	5-20-75

S. REFERENCE TO REPORTS

Horizontal Control Report.

· APPROVAL SHEET

Respectfully Submitted,

*Andrew N. Shepard J.*  
Sheet Manager

The field work on this Hydrographic Survey was under my daily supervision. The boat sheet and records have been reviewed and approved by me.

*RA [Signature]* CHAT NOAA  
Commanding Officer

MASTER SIGNAL NAMES LISTING

MI-40-2-80

H-9868

100	H-82-TX	AMC OPS FIELD COMP
190	MOBIL BLK-310-L-1	MM/TRVERSE 1980
195	<del>SU-BR-AIA</del>	<del>MM/GIGLE 1983</del>
200	CAPTAIN	FIELD PARTY G18
202	<del>FREPORT MUN. TANK</del>	<del>AMC OPS FIELD COMP</del>
204	<del>DOW CHEM PLT A TANK</del>	<del>AMC OPS FIELD COMP</del>
206	<del>SURFSIDE RADIO MAST</del>	<del>AMC OPS FIELD COMP</del>
210	GABLE T.V. MAST	AMC OPS FIELD COMP
212	VIC-PET-CO-GA-245L-1	AMC PHOTO PARTY 1979
215	GALVESTON S.W. MUN. TANK	AMC OPS FIELD COMP
230	MOODY METH. CH. SPIRE	AMC OPS FIELD COMP
236	SW WELLHEAD	MM/TRAV 798628
237	CTR WELLHEAD	MM/TRAV 798628
238	NE WELLHEAD	MM/TRAV 798628
240	MOODY PRESS FLATTOP TANK	<del>298943 1082</del>
245	USPHS STACK	<del>298943 1086</del>
250	PIER 34 TANK	<del>298943 1088</del>
260	GALVESTON MUN. TANK	<del>298943 1083</del>
265	USGG RADIO MAST	<del>298943 1063</del>
271	SH-GA-288-NE/4-5	8TH USCGD
272	SH-GA-288-SE/4-3	8TH USCGD
273	SH-GA-295-NW/4-1	8TH USCGD
270	SOUTH JETTY LIGHT	<del>298943 1101</del>
275	<del>BOLIVAR LIGHTHOUSE USE</del>	<del>298943 1050</del>
290	<del>BOLIVAR RADIO TOWER</del>	<del>AMC OPS FIELD COMP</del>
300	H-27-TX-78	<del>AMC OPS FIELD COMP</del>

MASTER SIGNAL TAPE LISTING

MI-40-2-80

H-9868

100	4	28	35	53645	095	58	42593	250	0000	171859
190	4	28	50	26536	095	14	23619	139	0000	000000
<del>195</del>	<del>4</del>	<del>28</del>	<del>20</del>	<del>39232</del>	<del>095</del>	<del>18</del>	<del>15420</del>	<del>139</del>	<del>0000</del>	<del>000000</del>
200	4	28	56	05032	095	17	58364	250	0000	171859
<del>202</del>	<del>4</del>	<del>28</del>	<del>57</del>	<del>05770</del>	<del>095</del>	<del>21</del>	<del>13267</del>	<del>139</del>	<del>0000</del>	<del>000000</del>
<del>204</del>	<del>4</del>	<del>28</del>	<del>56</del>	<del>47542</del>	<del>095</del>	<del>18</del>	<del>51873</del>	<del>139</del>	<del>0000</del>	<del>000000</del>
<del>206</del>	<del>4</del>	<del>28</del>	<del>58</del>	<del>22387</del>	<del>095</del>	<del>15</del>	<del>58710</del>	<del>139</del>	<del>0000</del>	<del>000000</del>
<del>210</del>	<del>4</del>	<del>29</del>	<del>14</del>	<del>02016</del>	<del>094</del>	<del>54</del>	<del>34712</del>	<del>139</del>	<del>0000</del>	<del>000000</del>
212	4	29	02	58772	094	55	43654	139	0000	000000
<del>215</del>	<del>4</del>	<del>29</del>	<del>16</del>	<del>01065</del>	<del>094</del>	<del>50</del>	<del>57460</del>	<del>139</del>	<del>0000</del>	<del>000000</del>
<del>230</del>	<del>4</del>	<del>29</del>	<del>16</del>	<del>29659</del>	<del>094</del>	<del>49</del>	<del>17194</del>	<del>139</del>	<del>0000</del>	<del>000000</del>
<del>236</del>	<del>4</del>	<del>29</del>	<del>15</del>	<del>08316</del>	<del>094</del>	<del>48</del>	<del>10028</del>	<del>139</del>	<del>0000</del>	<del>000000</del>
<del>237</del>	<del>4</del>	<del>29</del>	<del>15</del>	<del>29591</del>	<del>094</del>	<del>47</del>	<del>34245</del>	<del>139</del>	<del>0000</del>	<del>000000</del>
<del>238</del>	<del>4</del>	<del>29</del>	<del>15</del>	<del>51418</del>	<del>094</del>	<del>46</del>	<del>57729</del>	<del>139</del>	<del>0000</del>	<del>000000</del>
<del>240</del>	<del>4</del>	<del>29</del>	<del>17</del>	<del>34041</del>	<del>094</del>	<del>49</del>	<del>16628</del>	<del>139</del>	<del>0000</del>	<del>000000</del>
<del>245</del>	<del>4</del>	<del>29</del>	<del>17</del>	<del>24980</del>	<del>094</del>	<del>48</del>	<del>53200</del>	<del>139</del>	<del>0000</del>	<del>000000</del>
<del>250</del>	<del>4</del>	<del>29</del>	<del>18</del>	<del>19254</del>	<del>094</del>	<del>48</del>	<del>28897</del>	<del>139</del>	<del>0000</del>	<del>000000</del>
<del>260</del>	<del>4</del>	<del>29</del>	<del>18</del>	<del>49346</del>	<del>094</del>	<del>46</del>	<del>23523</del>	<del>139</del>	<del>0000</del>	<del>000000</del>
<del>265</del>	<del>4</del>	<del>29</del>	<del>20</del>	<del>01985</del>	<del>094</del>	<del>46</del>	<del>05559</del>	<del>139</del>	<del>0000</del>	<del>000000</del>
<del>270</del>	<del>4</del>	<del>29</del>	<del>19</del>	<del>39258</del>	<del>094</del>	<del>41</del>	<del>32887</del>	<del>139</del>	<del>0000</del>	<del>000000</del>
<del>271</del>	<del>4</del>	<del>28</del>	<del>54</del>	<del>00577</del>	<del>094</del>	<del>41</del>	<del>16506</del>	<del>139</del>	<del>0000</del>	<del>000000</del>
<del>272</del>	<del>4</del>	<del>28</del>	<del>53</del>	<del>26920</del>	<del>094</del>	<del>41</del>	<del>10042</del>	<del>139</del>	<del>0000</del>	<del>000000</del>
<del>273</del>	<del>4</del>	<del>28</del>	<del>52</del>	<del>19470</del>	<del>094</del>	<del>40</del>	<del>57866</del>	<del>139</del>	<del>0000</del>	<del>000000</del>
<del>275</del>	<del>4</del>	<del>29</del>	<del>21</del>	<del>59597</del>	<del>094</del>	<del>46</del>	<del>00263</del>	<del>139</del>	<del>0000</del>	<del>000000</del>
<del>290</del>	<del>4</del>	<del>29</del>	<del>23</del>	<del>48360</del>	<del>094</del>	<del>44</del>	<del>13479</del>	<del>139</del>	<del>0000</del>	<del>000000</del>
<del>300</del>	<del>4</del>	<del>29</del>	<del>35</del>	<del>12670</del>	<del>094</del>	<del>17</del>	<del>18380</del>	<del>250</del>	<del>0000</del>	<del>171859</del>

VELOCITY TAPE LISTING

MI-40-2-80

H-9868

000140 0 0000 0002 000 222000 040280  
 000250 0 0002  
 000375 0 0007  
 000480 0 0012  
 000580 0 0017  
 000725 0 0022  
 000845 0 0027  
 000965 0 0032  
 001085 0 0037  
 001190 0 0042  
 001315 0 0047  
 001430 0 0052  
 001550 0 0057  
 999999 0 0000

000175 0 0000  
 000220 0 0002  
 000260 0 0004  
 000300 0 0006  
 000350 0 0008  
 000400 0 0010  
 000445 0 0012  
 000492 0 0014  
 000540 0 0016  
 000590 0 0018  
 000635 0 0020  
 000680 0 0022  
 000727 0 0024  
 000775 0 0026  
 000820 0 0028  
 000869 0 0030  
 000913 0 0032  
 000960 0 0034  
 001011 0 0036  
 001060 0 0038  
 001120 0 0040  
 001150 0 0042  
 001195 0 0044  
 001242 0 0046  
 001290 0 0048  
 001337 0 0050  
 001382 0 0052  
 001430 0 0054  
 001480 0 0056  
 001525 0 0058

Tab RLC  
 ✓ by GFT  
 12/15/80

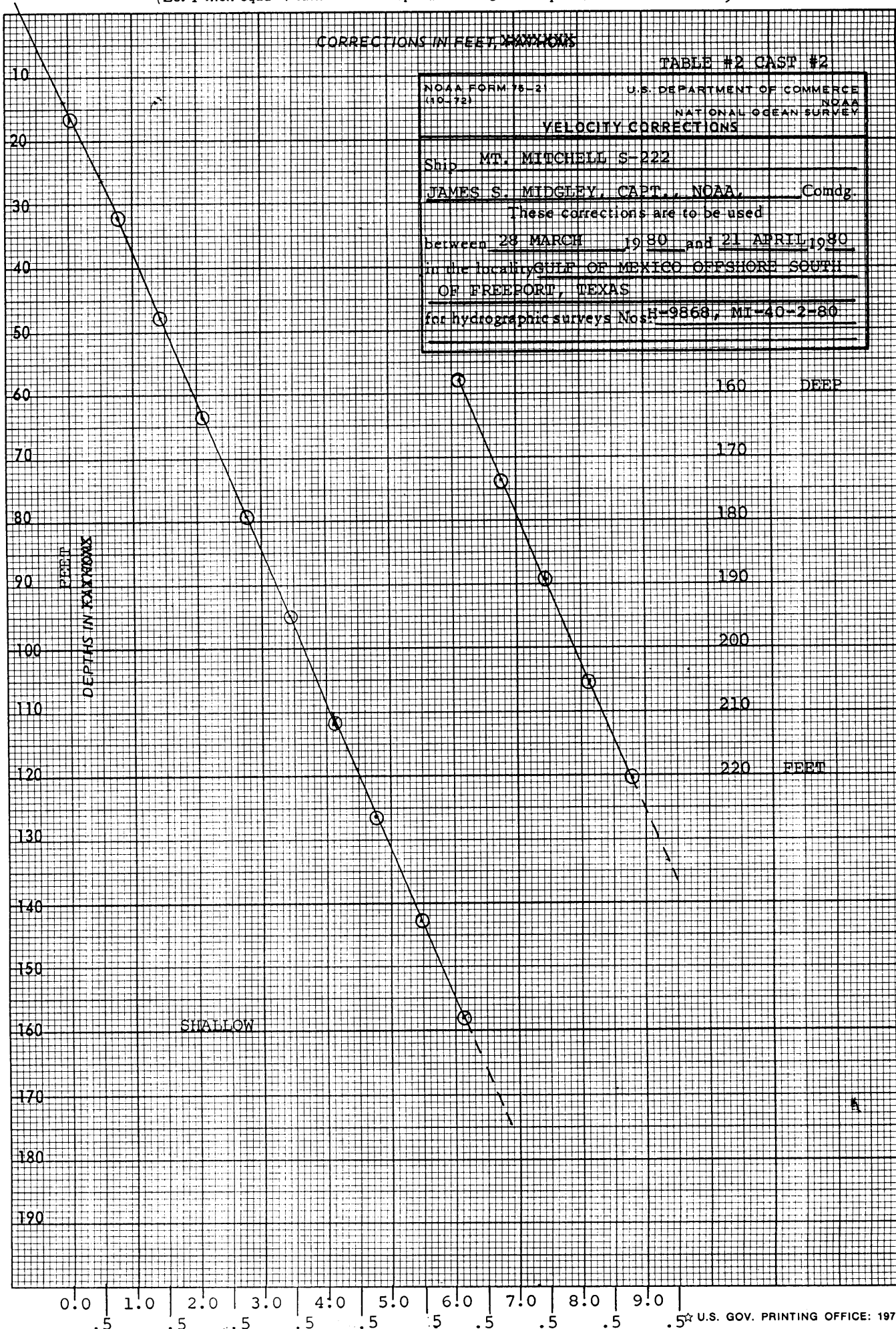
(Let 1 inch equal 4 fathoms for deep water and 1 inch equal 0.4 fathom for shoal.)

CORRECTIONS IN FEET, FATHOMS

TABLE #2 CAST #2

NOAA FORM 75-2 (10-72)	U.S. DEPARTMENT OF COMMERCE NOAA NATIONAL OCEAN SURVEY
<b>VELOCITY CORRECTIONS</b>	
Ship <u>MT. MITCHELL S-222</u>	
Commander <u>JAMES S. MIDDLEY, CAPT., NOAA</u> Comdg.	
These corrections are to be used	
between <u>29 MARCH</u> 19 <u>80</u> and <u>21 APRIL</u> 19 <u>80</u>	
in the locality <u>GULF OF MEXICO OFFSHORE SOUTH</u> <u>OF FREEPORT, TEXAS</u>	
for hydrographic surveys Nos. <u>H-9868, MI-40-2-80</u>	

(For deep water add a 0 to these figures)



46 1240

K&E 20 X 20 TO THE INCH • 7 X 10 INCHES  
KEUFFEL & ESSER CO. MADE IN U.S.A.

2

SETTLEMENT AND SQUAT CORRECTORS

June 12, 1978

SPEED (KTS)	CORRECTION (FT)
1	0
2	0
3	0
4	0
5	0.1
6	0.1
7	0.2
8	0.2
9	0.3
10	0.3
11	0.4
12	0.5
13	0.5

FIELD TIDE NOTE

TIDE GAGE REPORT

NOS TIDE TABLE NUMBER: \_\_\_\_\_ TIME MERIDIAN 090° W

GEOGRAPHIC LOCALE: Freeport, Texas Surfside Beach

NAME: Surfside Fishing Pier STATION NUMBER: 877-2481

LATITUDE: 28 57.4' N, LONGITUDE: 95 16.4' W

TYPE OF GAGE: ADR,  BUBBLER, OTHER ( \_\_\_\_\_ )

PLANE OF REFERENCE: MLW, MLLW,  GCLWD, OTHER, CORRESPONDS  
TO \_\_\_\_\_ FEET ON THE TIDE STAFF FOR THE PERIOD \_\_\_\_\_ TO \_\_\_\_\_

DATED INSTALLED: 3/14/80 BY: MT. MITCHELL Personnel

DATE REMOVED: N/A BY: \_\_\_\_\_

DATE LEVELED: 3/14 & 3/15/80 BY: MT. MITCHELL Personnel

REMARKS: This is a tertiary gage installed for the duration of the  
Hydrographic operations in this area this season (approximately three months).

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

U.S. DEPARTMENT OF COMMERCE  
September 9, 1980 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): 877-2481 Surfside Fishing Pier, Texas

Period: April 6 - May 22, 1980

HYDROGRAPHIC SHEET: H-9868

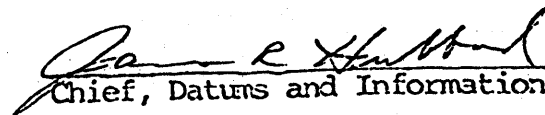
OPR: K104

Locality: Gulf of Mexico, Texas

(Gulf Coast Low Water Datum): 5.7 ft.  
Plane of reference ~~XXXXXX~~

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

REMARKS: Zone direct.

  
Chief, Datums and Information Branch

GEOGRAPHIC NAMES

H-9868

Name on Survey

A ON CHART NO. H 300  
 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

Name on Survey	A	B	C	D	E	F	G	H	I	J	K	L
Gulf of Mexico	✓											1
FREEPORT (TITLE)												2
												3
												4
												5
												6
												7
												8
												9
												10
												11
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												21
												22
												23
												24
												25

Approved:

*Chas. E. Harrington*  
 Chief Geographer

28 OCT. 1981

APPROVAL SHEET  
FOR  
SURVEY H- 9868

- 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.
- B. The verified smooth sheet has been inspected, is complete, and meets the requirements of the Hydrographic Manual. Exceptions are listed in the Verification Report.

Date: April 13, 1981

Signed:

R. D. Smolki  
Chief, Verification Branch

HYDROGRAPHIC SURVEY STATISTICS

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

RECORD DESCRIPTION		AMOUNT	RECORD DESCRIPTION			AMOUNT
SMOOTH SHEET		one	BOAT SHEETS & PRELIMINARY OVERLAYS			2 (rolls)
DESCRIPTIVE REPORT		one	SMOOTH OVERLAYS: POS. ARC, EXCESS			three
DESCRIP- TION	DEPTH RECORDS	HORIZ. CONT. RECORDS	PRINTOUTS	TAPE ROLLS	PUNCHED CARDS	ABSTRACTS/ SOURCE DOCUMENTS
ENVELOPES	one					
CAHIERS			one			
VOLUMES	three					
BOXES						

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	TOTALS
POSITIONS ON SHEET			4766
POSITIONS CHECKED	41		
POSITIONS REVISED		0	
SOUNDINGS REVISED		107	
SOUNDINGS ERRONEOUSLY SPACED		0	
SIGNALS (CONTROL) ERRONEOUSLY PLOTTED		0	
	TIME - HOURS		
CRITIQUE OF FIELD DATA PACKAGE (PRE-VERIFICATION)	8		
VERIFICATION OF CONTROL			
VERIFICATION OF POSITIONS		54	
VERIFICATION OF SOUNDINGS		324	
COMPILATION OF SMOOTH SHEET		56	
APPLICATION OF TOPOGRAPHY			
APPLICATION OF PHOTOBATHYMETRY			
JUNCTIONS		8	
COMPARISON WITH PRIOR SURVEYS & CHARTS		8	
VERIFIER'S REPORT		16	
OTHER		18	
TOTALS	8	484	492

Pre-Verification by	Beginning Date	Ending Date
JBW	6/24/80	6/25/80
Verification by	Beginning Date	Ending Date
JBW, RLK, JSB	8/06/80	4/13/81
Verification Check by	Time (Hours)	Date
RDS	1	4/13/81
Marine Center Inspection by	Time (Hours)	Date
HIT (AMC)	3	4/13/81
Quality Control Inspection by	Time (Hours)	Date
J.R. Baumgardner	51	7/20/81
Requirements Evaluation by	Time (Hours)	Date
[Signature]	2	1/26/82

G.K. Tupper 14 Jan 11/1/81

REGISTRY NO. 41-9868

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 additional completion of digital records required 323*

ATLANTIC MARINE CENTER  
VERIFICATION REPORT

REGISTRY NO.: H-9868

FIELD NO.: MI-40-2-80

Texas, Gulf of Mexico, Offshore South of Freeport

SURVEYED: March 14 through May 21, 1980

SCALE: 1:40,000

PROJECT NO.: OPR-K104

SOUNDINGS: Ross Digital  
Echo Sounder

CONTROL: Hydrotrac  
(Range/Range)

Chief of Party .....	R. A. Trauschke, J.S. Midgley
Survey by .....	R. W. Jones
.....	J. Wilder
.....	A. N. Shepard
.....	J. L. Long
.....	R.K. Dutton
.....	D. Williams
.....	J. Zabitchuck
Automated Plot by .....	Xynetics 1201 Plotter (AMC)
Verified by .....	J. Scott Bradford
Date .....	13 April 1981

1. INTRODUCTION

a. There were no unusual problems encountered on this survey.

b. Notes and changes in red found in the Descriptive Report were made by the verifier during verification.

2. CONTROL AND SHORELINE

a. The source of control is adequately described in section F and G of the Descriptive Report.

b. There is no shoreline within the limits of this survey.

3. HYDROGRAPHY

a. The agreement of soundings at crossings on this survey is adequate; depths agree within the limits prescribed by the Hydrographic Manual.

b. Depth curves could be adequately drawn.

c. The delineation of the bottom configuration and the investigation of least depths is considered adequate.

4. CONDITION OF SURVEY

The smooth sheet and accompanying overlays, hydrographic records and reports comply with the requirements of the Hydrographic Manual with the following exceptions:

a. The original velocity correctors were changed at the Atlantic Marine Center from a 0.5-foot interval to a 0.2-foot interval. This is more desirable from a processing standpoint, considering the gently sloping bottom of H-9868.

b. Weather information was not applied to graphic records as required in section 1.5.3 of the Hydrographic Manual.

c. A diver's investigation on Development #7, <sup>(lat. 28°30'30", long. 95°07'39")</sup> would have been beneficial. Considering the uniform bottom configuration, this being a shoal feature as stated is doubtful. It is likely to be an obstruction or wreck. Attached to the end of this report is a copy of the echogram record of the most prominent object.

Echogram filed in sounding records.

## 5. JUNCTIONS

Adequate junction was made with the following surveys.

H-9881	(1980) to the west and north
H-9885	(1980) to the north and east
H-9867	(1980) to the south

These junctions are complete and require no further work.

## 6. COMPARISON WITH PRIOR SURVEYS

H-6291	(1937) 1:80,000
H-6398a	(1938) 1:40,000
H-6404	(1938) 1:80,000

The above listed surveys are the most recent prior surveys in this area that provide complete coverage.

In general, the present survey is as much as 4 feet deeper than these prior surveys. These differences may be attributed to differences in sounding equipment used on the prior surveys. Also, these differences may be attributed to subsidence in this area due to the withdrawal of oil and gas.

Several pronounced spikes up to 20 feet shoaler than surrounding depths were found in the vicinity of latitude 28°30.5', Longitude 95°07.6' on the present survey. No indication of such features are shown on the prior survey. These features are probably sunken wrecks or obstructions from oil exploration activities in the area and not natural bottom features.

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

## 7. COMPARISON WITH CHART 11300 (22th Ed., June 2, 1979) Chart 11321 (19th Ed., May 26, 1979)

### a. Hydrography

The charted hydrography originates with the previously discussed prior surveys and requires no further consideration. Attention is directed to the following:

*non-dangerous*

The sunken wreck, PA, charted in latitude  $28^{\circ}24'$ , Longitude  $95^{\circ}18'$  originates with an unascertainable source. The hydrographer did not conduct an investigation sufficient to disprove the existence of this wreck. It is recommended that the non-dangerous sunken wreck be retained as charted. *concur*  
*PA*

The present survey, except as noted above, is considered adequate to supersede the charted hydrography in the common area.

b. Aid to Navigation

There are no aids to navigation within the limits of this survey.

8. COMPLIANCE WITH INSTRUCTIONS

This survey complies with the Project Instructions.

9. ADDITIONAL FIELD WORK

This is an excellent basic survey. No additional work is recommended on this survey. However, it may be desirable to wire drag the indications of wrecks or obstructions located in the vicinity of latitude  $28^{\circ}30.5$ , Longitude  $95^{\circ}07.6$  if the area is to be used by deep draft vessels.

Attachment:

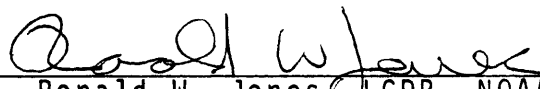
Copy of Echogram (*Inserted in sounding records*)


INSPECTION REPORT  
H-9868

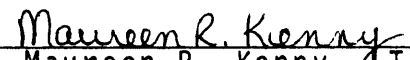
The completed survey has been inspected by the Hydrographic Inspection Team with regard to survey coverage, delineation of depth contours, development of critical depths, cartographic symbolization, and verification or disproval of charted data. The Verification Report has presented the facts accurately and properly, the procedures used were appropriate, and the recommendations are logical and justifiable. The survey complies with National Ocean Survey requirements. 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, CDR, NOAA  
Chief, Processing Division

  
Ronald W. Jones, LCDR, NOAA  
Operations Division

  
R. D. Sanocki  
Chief, Verification Branch  
Processing Division

  
Maureen R. Kenny, LT, NOAA  
Chief, EDP Branch  
Processing Division

Approved/Forwarded  
April 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

OA/C352:SRB

July 20, 1981

TO: Glen R. Schaefer *GS*  
Chief, Hydrographic Surveys Division

THRU: Chief, Quality Control Branch *gm*  
*S R Baumgardner*

FROM: S. R. Baumgardner  
Quality Evaluator

SUBJECT: Quality Control Report for H-9868 (1980), Texas, Gulf of Mexico,  
Offshore South of Freeport

A quality control inspection of H-9868 was accomplished to monitor the survey for adequacy with respect to data acquisition, delineation of the bottom, determination of least depths, navigational hazards, junctions, sounding line crossings, smooth plotting, decisions and actions taken by the verifier, and the cartographic presentation of data. Revisions and additions to the smooth sheet, plus helpful comments, are identified on a one-half scale copy of the survey which will be furnished to the verifier. 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:  
OA/C351





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

FEB 18 1982

OA/C351:SVJ

TO: OA/CAM - Richard H. Houlder

FROM: ~~OA/C3~~ Roger F. Lanier

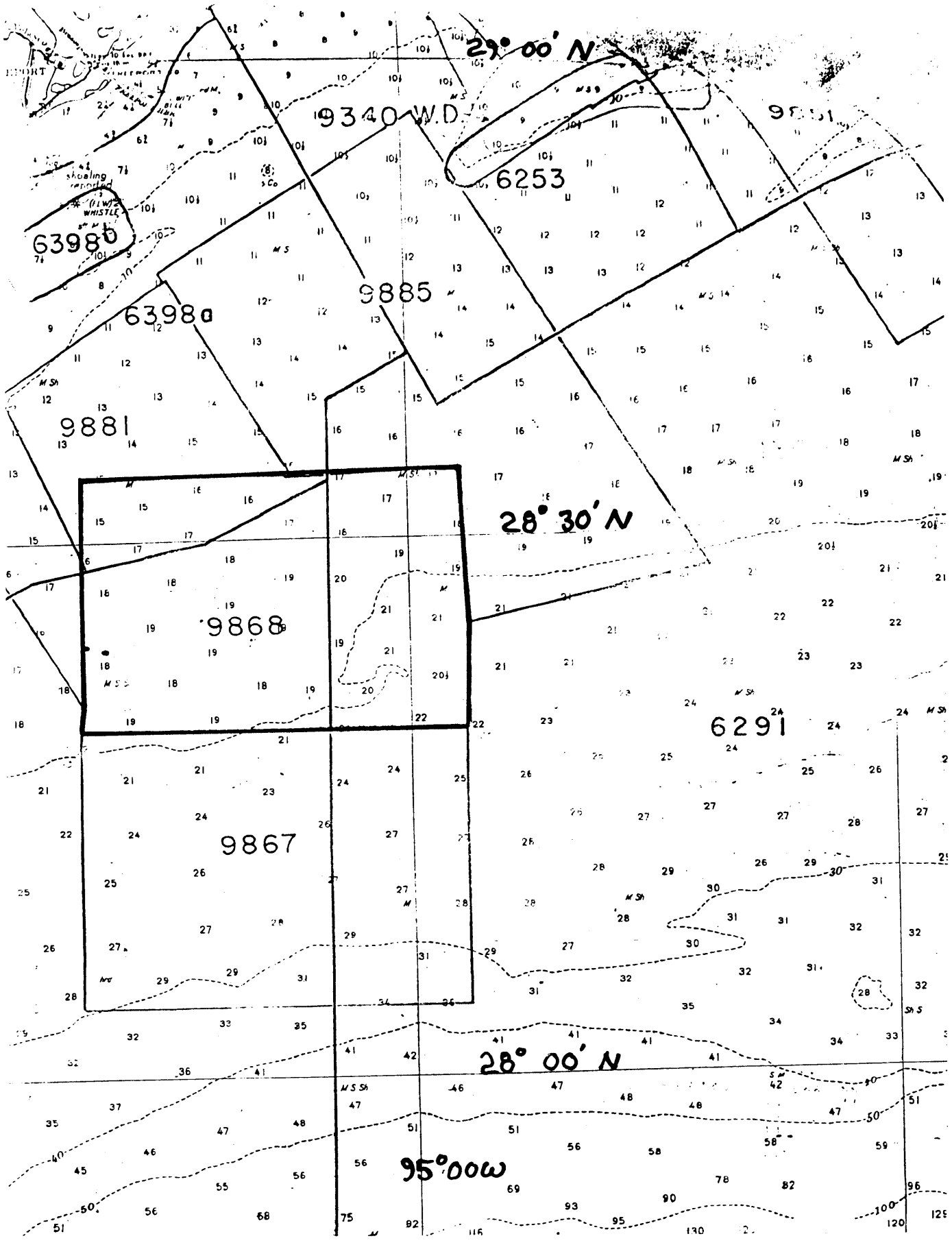
SUBJECT: H-9868 (1980), Texas, Gulf of Mexico, Offshore South of Freeport,  
Report of Compliance with Project Instructions

The smooth sheet and Descriptive Report for the subject survey have been examined. This survey, except as noted in the Quality Control Report, dated July 20, 1981 (copy attached), and the Hydrographic Survey Inspection Team Report, dated April 15, 1981, is complete and adequate for the purposes intended and is in compliance with Project Instructions OPR-K104-MI-80, dated January 30, 1980.

Attachment

cc:  
OA/C352 w/o att.





29° 00' N

9340 WD

9851

6398b

6253

6398a

9885

9881

28° 30' N

9868

6291

9867

28° 00' N

95° 00' W

shoaling reported  
WHISTLE

