

H12069

NOAA FORM 76-35A  
U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SERVICE

## DESCRIPTIVE REPORT

Type of Survey: Hydrographic Multibeam & 200% Sidescan

Project No. : OPR-K354-KR-09

Registry No. : H12069

### LOCALITY

State: Louisiana

General Locality: Gulf of Mexico

Sublocality: 15 NM S of Entrance to Lake Pelto

2010

CHIEFS OF PARTY  
Scott Croft, John Baker

### LIBRARY & ARCHIVES

DATE: \_\_\_\_\_

NOAA FORM 77-28 (11-72)	U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION REGISTRY No: H12069
<b>HYDROGRAPHIC TITLE SHEET</b>	
State: <u>Louisiana</u>	
General Locality: <u>Gulf of Mexico</u>	
Locality: <u>15 NM S of Entrance to Lake Pelto</u>	
Scale: <u>1:10,000</u> Date of Survey: <u>October 2009 to April 2010</u>	
Instructions Dated: <u>June 2009</u> Project Number: <u>OPR-K354-KR-09</u>	
Vessels: <u>M/V Andrew Charles</u>	
Chiefs of Party: <u>Scott Croft, John Baker</u>	
Surveyed by: <u>C&amp;C Technologies Personnel</u>	
Soundings taken by echosounder, hand lead line, or pole: <u>Simrad EM3002 Multibeam Echo sounder</u>	
Verification by: <del>C&amp;C Technologies Personnel</del> <b>Atlantic Hydrographic Branch</b>	
Soundings in: Feet: <u>X</u> Fathoms: _____ Meters: <u>X</u> at MLW: _____ MLLW: <u>X</u>	
<b>H-Cell Compilation Units:      Feet at MLLW</b>	
<b>Remarks:</b> Multibeam Hydrographic Survey of Sheet H Data collection in meters, referenced to MLLW, later converted into feet 200% side scan sonar coverage UTC time was used exclusively Grab samples were taken Tidal Zones: CGM366, 717, 718, 731, 732, 733, 734, 735, 749, 750, 364, WGM416 Tidal Station: 8762075 (Port Fourchon, LA) <b>UTM Zone 15N</b>	

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## **APPENDICES**

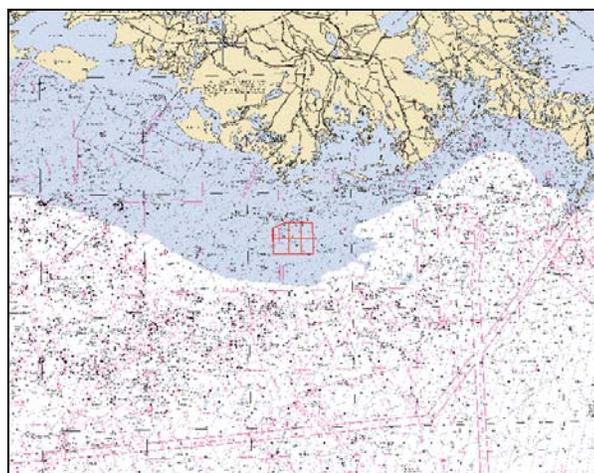
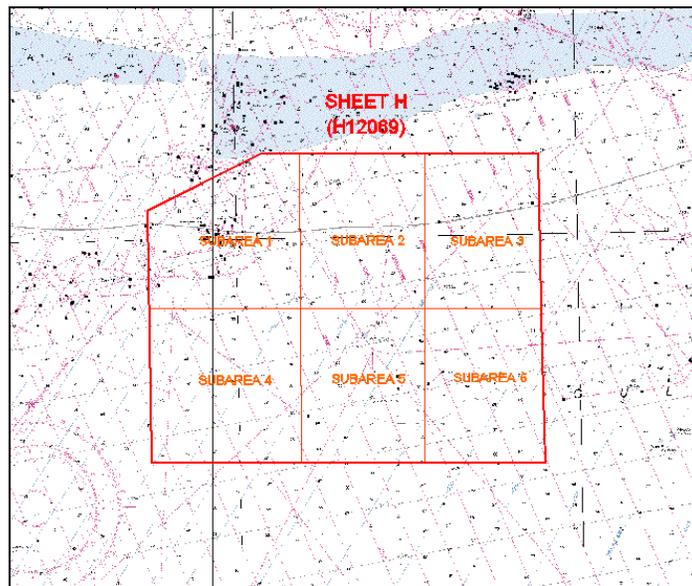
Appendix I	Danger to Navigation Reports
Appendix II	Survey Feature Report
Appendix III	Final Progress Sketch and Survey Outline
Appendix IV	Tides and Water Levels
Appendix V	Supplemental Survey Records and Correspondence

## **SEPARATES**

Separates I	Acquisition and Processing Logs
Separates II	Sonar Contact Table Side Scan Data Reproductions Correlator Sheets
Separates III	Sound Velocity Profile Data
Separates IV	Statement of Work
Separates V	Crossline Comparisons

## A. AREA SURVEYED

The survey area is located 15 NM South of the entrance to Lake Pelto in the Gulf of Mexico. The following sketch shows the layout of Sheet H (H12069) of Project (OPR-K354-KR-09). Water depths in the survey area range from 30 feet to 64 feet Mean Lower Low Water (MLLW). *Concur.*





	<i>Andrew Charles</i>	Total
LNM Side Scan + Multibeam	1854.10	1854.10
LNM Crosslines	100.59	100.59
LNM Investigations	2.19	2.19

Number of bottom samples collected	61
Number of items investigated	3
Total square nautical miles	86.39

### A.1 ACQUISITION DATES

*October 13-15, 19-21, 24-26 2009*

*November 12-19, 23-24, 27-29 2009*

*December 20-22 2009*

*January 2-7, 11-15 2010*

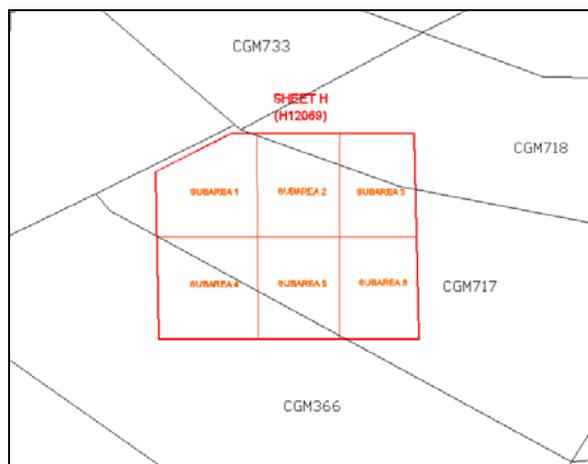
*February 20-23, 25-28 2010*

*March 1, 3-9, 11-12, 14-20, 23-24, 26-31 2010*

*April 1-5, 7-8 2010*

### A.2 SURVEY SUBAREAS

The survey area was broken down into six sub areas to allow for more efficient data processing and management. The sub areas were based on the predicted data set sizes prior to survey commencement. Tidal data from Port Fourchon, LA (8762075) was used as the source for corrections. Tide zones CGM717 and CGM366 split subareas 4, 5 and 6. While zones CGM174 and CGM718 split 1, 2 and 3. Below is an image showing the layout of the tide zoning for this project.



## B. DATA ACQUISITION AND PROCESSING *See also H-Cell Report*

### B.1 EQUIPMENT

System	Manufacturer	Model
Multibeam Echo Sounder	Simrad	EM3002
Side Scan Sonar	Edgetech	4200
Single Beam Echo Sounder	ODOM	Echotrac DF3200 MK III
Motion Sensor	CODA	F180
Primary Positioning System	CNAV	2050
Secondary Positioning System	CNAV	2050
Tertiary Positioning System	CODA	F180
Sound Speed at Transducer	Endeco	YSI
Sound Velocity Profiler	Seabird	SBE19 Plus

See Data Acquisition and Processing Report\* for a detailed description of the equipment used for hydrographic operations. *\*Included with H-Cell deliverables*

The *M/V Andrew Charles*, a 41.1-meter vessel conducted survey operations for this project. The vessel is 10.3 meters wide with an approximate draft of 3.02 meters. A central reference point was established prior to the survey from which all relevant offsets were measured. Relevant offsets are presented in the following table.

METERS FROM CRP	Y(FORWARD)	X(STARBOARD)	Z(VERTICAL)
Primary CNAV	3.070	-0.376	-10.770
Secondary CNAV	3.070	0.275	-10.661
F180 Primary	3.070	-0.947	-10.752
F180 Secondary	3.070	1.053	-10.746
IMU	-0.248	1.038	-0.817
EM3002	1.326	1.835	4.008
Single Beam (Dual)	0.783	1.835	4.008
SSS Sheave	-26.022	-0.053	3.773

Detailed vessel descriptions, vessel diagrams, and patch test results are presented in the Data Acquisition and Processing Report\*. *\*Included with H-Cell deliverables*

## B.2 QUALITY CONTROL

In order to most efficiently carry out this survey, the survey lines were oriented roughly east west throughout the survey area. The side scan was operated with a range of 100 meters per channel, and line spacing was set to 90 meters. These parameters allowed us to effectively meet the criteria of 200 percent side scan coverage, using Technique 2, as set forth in Section 6.1 of the “Specifications and Deliverables” document. The angular sector on the multibeam was set so that the criterion of two times water depth, as well as all accuracy, resolution, and detection criteria as set forth in Sections 5.2 and 5.3 of the “Specifications and Deliverables” document, were met.

The internal consistency of the multibeam depth values is quantified in the cross line statistics that were performed at the end of each main line. Cross lines were run prior to the collection of main line data so that quality control statistics could be performed on the data after each line. Based on pre-plot calculations, the total cross line mileage was 101 nm, while the total main line mileage was 1753 nm. The cross lines comprised about 6% of the total data set as compared to the main scheme lines. Rerun line miles are not included in these totals. As can be seen in the sample statistics found in Separates V, the main lines and cross lines depth



values showed very good agreement. Each main line was compared to all cross lines for which there was overlapping data. The graphs shown in Separates V are a random sample of the graphs that were produced. The graphs show the mean difference, RMS difference, and confidence interval for each beam. The results show that the multibeam data was repeatable with 90% of the soundings within about 8 to 14 centimeters across the swath. The five BASE surfaces for Sheet H were created at a scale of 1:10000 with a resolution of 2 meters. Soundings between the base surfaces agree to within 1 foot in all areas, with no visible draft or tidal errors between the survey junctions. No further corrections to soundings are necessary.

Multibeam quality control procedures are outlined in Section B.1 of the accompanying Data Acquisition and Processing Report\*.

*\*Included with H-Cell deliverables*

### B.3 CORRECTIONS TO ECHO SOUNDINGS

No deviations from the Correction to Echo Soundings section in the Data Acquisition and Processing Report\* occurred.

### C. VERTICAL AND HORIZONTAL CONTROL *See also H-Cell Report*

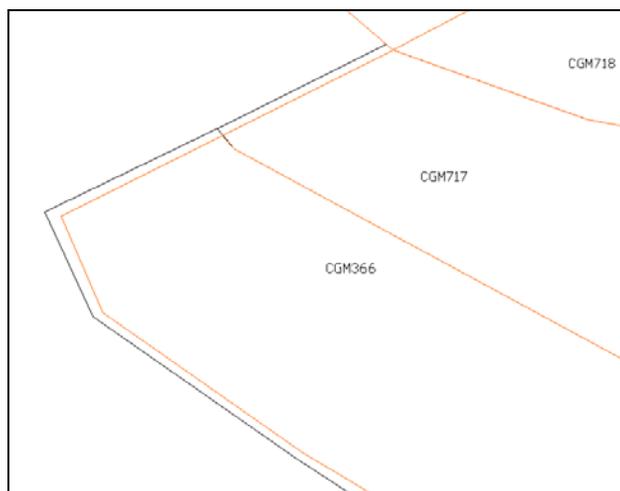
Tide and water level corrections were determined and applied in accordance with Attachment #7 of the Statement of Work. Tidal zoning as set forth in the Statement of Work was applied. Data from Port Fourchon, LA (8762075) was used as the primary source of tides, while Grand Isle, LA (8761724) was used as a back up. Because there were no outages at the primary station during the survey, the secondary station was not used for any tidal corrections. The following table shows the tidal zone and correctors that were used for this sheet. Tidal data were processed using the 1983-01 epoch.

## Descriptive Report to Accompany Hydrographic Survey H12069



Tide Zone	Reference Station	Primary/ Secondary	Time Corrector	Range Ratio
CGM366	8762075	PRIM	-12	1.05
CGM366	8761724	SEC	-48	1.23
CGM717	8762075	PRIM	-12	1.05
CGM717	8761724	SEC	-48	1.23
CGM718	8762075	PRIM	-12	1.05
CGM718	8761724	SEC	-42	1.23
CGM731	8762075	PRIM	-12	1.05
CGM731	8761724	SEC	-42	1.23
CGM732	8762075	PRIM	-6	1.09
CGM732	8761724	SEC	-42	1.27
CGM733	8762075	PRIM	-6	1.17
CGM733	8761724	SEC	-36	1.37
CGM734	8762075	PRIM	-6	1.09
CGM734	8761724	SEC	-36	1.27
CGM735	8762075	PRIM	-6	1.05
CGM735	8761724	SEC	-42	1.23
CGM749	8762075	PRIM	0	1.13
CGM749	8761724	SEC	-36	1.32
CGM750	8762075	PRIM	0	1.09
CGM750	8761724	SEC	-36	1.27
WGM416	8762075	PRIM	-6	1.21
WGM416	8761724	SEC	-36	1.42
CGM364	8762075	PRIM	-6	1.09
CGM364	8761724	SEC	-36	1.27

To ensure complete coverage, C&C created line files that extended beyond the survey boundary by approximately 150 to 300 meters. The zone definition file provided by CO-OPS had to be altered by C&C in order to cover this area. The result was zones CGM366 and CGM717 being extended along their northwest boundaries by approximately 600 meters. This file was named K354KR2009CORP\_C&C\_Edit.zdf and affects only subarea 1. The image below shows the new .zdf file (black) compared to the old file (orange).



The horizontal datum for the survey is the North American Datum of 1983 (NAD 83). The projection is Universal Transverse Mercator (UTM) Zone 15 North. The vertical datum for the soundings is Mean Lower Low Water (MLLW). **Concur.**

**D. RESULTS AND RECOMMENDATIONS** *See also H-Cell Report*

*Feature descriptions in this section were reviewed based on the largest scale chart covering the respective area. Any features that the contractor re-addressed on smaller scale charts have been stricken out (e.g., ~~example~~) by the AHB reviewer. This was done by AHB for the sake of clarity, so that each feature is only discussed once.*

*Refer to Appendix II – Survey Features Report for verified feature information and final feature disposition.*

**D.1 CHART COMPARISON**

**D.1.1 CHARTS AND NOTICES TO MARINERS**

The following charts were used for comparison purposes.

Chart Number	Scale	Edition	Edition Date
11356	1:80,000	38	Jun 08
11357	1:80,000	40	Jun 09
<del>11340</del>	<del>1:458,596</del>	74	<del>Aug 09</del>

The following table shows the last updated NM and LNM for each digital chart.

Chart Number	Corrected Through	
	NM	LNM
11356	Jun. 14/08	Jun. 03/08
11357	Jun. 06/09	Jun. 02/09
11340	Aug 08/09	Jul 28/09

#### D.1.2 CHARTED FEATURES

No evidence of the following charted features was found during this survey. It is recommended that these features be removed from the chart. All charted hazards were assigned for full investigation as AWOIS items, and have been discussed in greater detail in section D.1.6 of this report. All positions were taken from the chart, and are approximate. *Concur with clarification. See Appendix II.*

Charted Feature	Chart Number	Latitude	Longitude
31 ft Obstruction PA <i>AWOIS 14641</i>	11356	28°50'34.080"N	90°50'02.040"W
30 ft Obstruction PA <i>AWOIS 14642</i>	11356	28°49'56.488"N	90°50'08.423"W

Charted Feature	Chart Number	Latitude	Longitude
Submerged Wreck <i>AWOIS 273</i>	11357	28°46'58.795"N	90°44'35.519"W
31 ft Obstructions PA	11357	28°50'34.080"N	90°50'02.040"W
30 ft Obstruction PA	11357	28°49'55.920"N	90°50'08.880"W

Charted Feature	Chart Number	Latitude	Longitude
Submerged Wreck	11340	28°47'07.822"N	90°44'58.669"W
5 fathom Obstruction PA	11340	28°50'37.431"N	90°50'00.193"W
5 fathom Obstruction PA	11340	28°49'55.920"N	90°50'08.880"W

Charted hazards that were found during survey operations are discussed in section D.1.6 of this report. *Concur with clarification. See Appendix II.*



### D.1.3 NOTICES TO MARINERS

The Notices to Mariners were reviewed from the last updated notice for each digital chart, to April 8, 2010. During that time, there were four notices to mariners issued for the charted area within the survey bounds.

The four LNM are for additions of “Submarine Pipelines” on chart number 11357. These pipelines are buried, making it impossible to confirm with sidescan and multibeam. Below is a listing of these notices.

Notice	Date	Name	Latitude	Longitude
"LNM 34/09, 8th Dist"	8/26/2009	Submarine Pipeline PT 1 OF 2	28°51'07.030"N	90°42'50.200"W
"LNM 34/09, 8th Dist"	8/26/2009	Submarine Pipeline PT 2 OF 2	28°50'41.700"N	90°41'40.200"W
"LNM 05/10, 8th Dist"	2/3/2010	Submarine Pipeline PT 1 OF 5	28°51'42.200"N	90°49'42.200"W
"LNM 05/10, 8th Dist"	2/3/2010	Submarine Pipeline PT 2 OF 5	28°51'56.470"N	90°49'50.980"W

### D.1.4 CHARTED SOUNDINGS

#### Chart 11340

~~In general, surveyed soundings are 1-7 feet deeper than charted soundings. The greatest discrepancy is found in the southern parts of subareas 4, 5, and 6.~~

#### Chart 11356

Surveyed soundings are 1-5 feet deeper than charted soundings. **Concur.**

#### Chart 11357

Surveyed soundings are 0-3 feet deeper than charted soundings. **Concur.**



#### D.1.5 SHOALS AND HAZARDOUS FEATURES

There are no charted shoals within the survey bounds, and none were found during survey operations. No new hazardous features were found during the survey, and all of the charted hazards within the survey area were assigned for full investigation as AWOIS items, and have been discussed in section D.1.6 of this report. *Concur with clarification. See Appendix II.*

#### D.1.6 AWOIS ITEMS

Five AWOIS items were assigned for full investigation within the H12069 survey area. *Concur with clarification. The AWOIS ID numbers were referenced to an incorrect field of the AWOIS database by the contractor; the correct AWOIS numbers have been added in red below.*

##### AWOIS ~~264~~ 273

Description: U-166

AWOIS Position: 28°47'00.86"N 90°45'00.32"W

Search Radius: 2000 meters

Investigation Method: 200% Side Scan Sonar, Multibeam Echo sounder

Investigation Summary: This AWOIS item is described as the sunken wreck U-166, and is also found on charts 11357 and 11340 as a submerged wreck. No evidence of this item was found during the survey, and it is recommended that it be removed from the charts. *Concur with clarification. See Appendix II.*

##### AWOIS ~~8155~~ 9541

Description: Obstruction

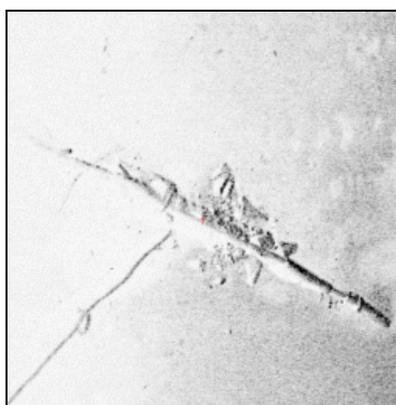
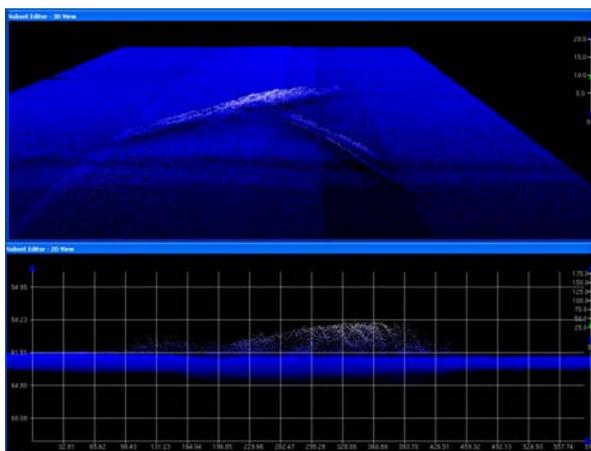
AWOIS Position: 28°47'27.10"N 90°46'17.64"W

Search Radius: 50 meters

Investigation Method: 200% Side Scan Sonar, Multibeam Echo sounder

Investigation Summary: This AWOIS item is described as an Obstruction, and is also found on charts 11357 and 11340 as a submerged obstruction. It was found

during survey operations with a least depth of 58.379 ft at 28°47'26.939"N, 90°46'17.468"W (NAD83). It is recommended that this feature remain on the chart as a 58 ft Submerged Obstruction at 28°47'26.939"N, 90°46'17.468"W (NAD83). This AWOIS item has been marked as a designated sounding within the H12069 Caris project submitted in conjunction with this report. **Concur with clarification. See Appendix II.**



AWOIS ~~16171~~ 14641

Description: Obstruction

AWOIS Position: 28°50'34.00"N 90°50'02.00"W

Search Radius: Unknown

Investigation Method: 200% Side Scan Sonar, Multibeam Echo sounder



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Investigation Summary: This AWOIS item is described as an Obstruction, and is also found on charts 11356, 11357 and 11340 as a submerged obstruction PA. No evidence of this item was found during the survey, and it is recommended that it be removed from the charts. *Concur with clarification. See Appendix II.*

AWOIS ~~16173~~ 14642

Description: Obstruction

AWOIS Position: 28°49'56.00"N 90°50'09.00"W

Search Radius: 300 meters

Investigation Method: 200% Side Scan Sonar, Multibeam Echo sounder

Investigation Summary: This AWOIS item is described as an Obstruction, and is also found on charts 11356, 11357 and 11340 as a submerged obstruction PA. No evidence of this item was found during the survey, and it is recommended that it be removed from the charts. *Concur with clarification. See Appendix II.*

AWOIS ~~7215~~ 8432

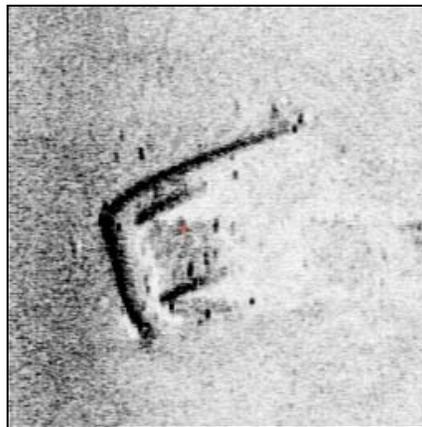
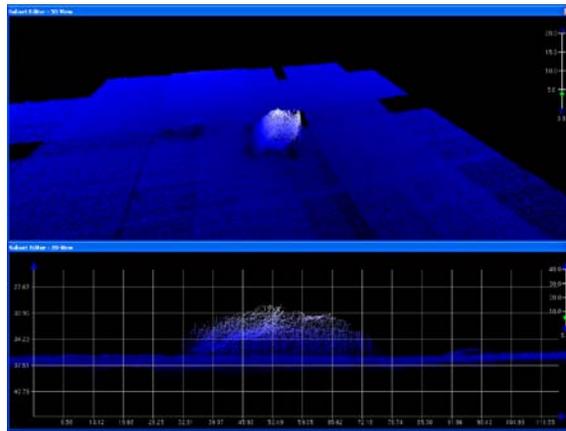
Description: Breton Island

AWOIS Position: 28°51'59.10"N 90°49'50.34"W

Search Radius: 300 meters

Investigation Method: 200% Side Scan Sonar, Multibeam Echo sounder

Investigation Summary: This AWOIS item is described as the sunken wreck Breton Island, and is also found on charts 11357 and 11340 as a submerged wreck PA. It was found during survey operations with a least depth of 29.774 ft at 28°51'59.011"N 90°49'50.528"W (NAD83). It is recommended that this feature remain on the chart as a 30 ft Submerged wreck at 28°51'59.011"N 90°49'50.528"W (NAD83). This AWOIS item has been marked as a designated sounding within the H12069 Caris project submitted in conjunction with this report. *Concur with clarification. See Appendix II.*



#### D.1.7 INVESTIGATION ITEMS

Additional investigation work was performed for three significant sonar contacts. Two to six additional multibeam and side scan lines were run over each of these targets. The two targets that have been considered significant were assigned for full investigation as AWOIS items, and have been discussed in section D.1.6 of this report. ***Concur with clarification. See Appendix II.***

#### D.1.8 DANGER TO NAVIGATION REPORTS

No Danger to Navigation Reports were issued. ***Do not concur. The contractor submitted one (1) DtoN to AHB during field operations for this survey, for which AHB submitted a DtoN Report to MCD. See Appendix I of this report.***



## D.2 ADDITIONAL RESULTS

### D.2.1 PRIOR SURVEYS

Comparison with prior surveys was not required under this Task Order. See Section D.1 for comparison to nautical charts.

### D.2.2 AIDS TO NAVIGATION

No Aids to Navigation are charted, and none were found within the survey bounds at the time of the survey. *Concur.*

### D.2.3 EXISTING INFRASTRUCTURE

The following structures were found as charted. *Concur with clarification. See Appendix II.*

Charted Position			
Latitude	Longitude	Structure Type	Structure Name
28°46'11.356"N	90°44'27.664"W	Platform	ST 75 B
28°46'29.335"N	90°44'01.438"W	Platform	ST 75 C
28°47'05.690"N	90°46'01.534"W	Platform	SS 139 – no visible name
28°45'25.160"N	90°47'59.675"W	Platform	SS 138 I
28°50'49.065"N	90°41'18.538"W	Platform	PL 22 A
28°50'41.951"N	90°41'38.451"W	Platform	PL 22 B
28°51'07.077"N	90°42'50.748"W	Platform	SP 21 #1
28°49'02.653"N	90°50'41.803"W	Platform	SS 117 #7
28°49'35.794"N	90°50'27.401"W	Platform	SS 114 #58
28°49'28.781"N	90°50'22.200"W	Platform	SS 117 #4
28°49'51.766"N	90°50'31.615"W	Platform	SS 114 U
28°49'59.835"N	90°49'54.918"W	Platform	SS 114 A
28°50'08.370"N	90°50'31.489"W	Platform	SS 114 H
28°50'21.222"N	90°50'59.168"W	Platform	SS113 #30
28°50'26.259"N	90°50'19.914"W	Platform	SS 114 #51
28°48'51.015"N	90°52'17.982"W	Platform	SS 118 R

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The positions of the following charted structures should be updated to reflect the surveyed position. **Concur with clarification. See Appendix II.**

Surveyed Position			
Latitude	Longitude	Structure Type	Structure Name
28°50'24.640"N	90°52'31.682"W	Platform	SS 113 #45
28°50'21.024"N	90°52'33.262"W	Platform	SS 113 – no visible name

The following uncharted structures were found during the survey. **Concur with clarification. See Appendix II.**

Surveyed Position			
Latitude	Longitude	Structure Type	Structure Name
28°51'57.375"N	90°42'01.057"W	Platform	PL 19 #54
28°51'42.528"N	90°49'41.794"W	Platform	SS 114 J
28°51'41.114"N	90°49'41.233"W	Platform	SS 114 #8

The following is a list of structures that are currently charted, but were no longer present at the time of the survey. **Concur with clarification. See Appendix II.**

Charted Position	
Latitude	Longitude
28°46'22.175"N	90°45'20.579"W
28°46'18.558"N	90°46'05.464"W
28°46'59.686"N	90°46'04.188"W
28°52'08.215"N	90°47'42.907"W
28°49'09.368"N	90°50'32.231"W
28°49'55.303"N	90°50'27.841"W
28°50'01.517"N	90°50'56.671"W
28°50'01.495"N	90°50'50.122"W
28°50'01.443"N	90°50'46.848"W
28°50'05.837"N	90°50'22.897"W
28°50'07.768"N	90°50'35.489"W
28°50'13.633"N	90°50'31.345"W
28°50'10.734"N	90°50'14.936"W
28°50'13.782"N	90°50'52.123"W
28°50'10.752"N	90°50'50.806"W
28°50'08.017"N	90°50'48.104"W
28°50'21.535"N	90°50'06.392"W
28°50'29.887"N	90°50'00.578"W



28°50'38.033"N	90°49'59.632"W
28°51'41.642"N	90°49'51.467"W
28°51'33.369"N	90°50'00.360"W
28°51'40.173"N	90°49'35.422"W
28°49'38.106"N	90°49'59.368"W
28°49'02.283"N	90°50'45.502"W
28°49'01.790"N	90°50'48.405"W
28°50'15.642"N	90°51'05.226"W
28°49'15.805"N	90°52'33.798"W

#### D.2.4 OTHER PERTINENT INFORMATION

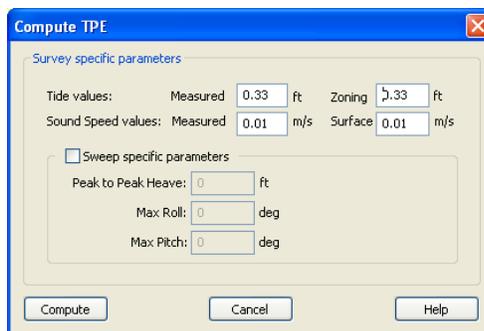
Draft corrections are verified on a daily basis, and entered into the multibeam collection software to be applied in real-time. Draft was entered directly into the single beam.

Six separate BASE surfaces were created for this project, one for each subarea. All six BASE surfaces were created at 2-meter resolution. *Concur.*

All of the side scan data collected for this project has been layback corrected. Data should be imported into Caris using fish position and zero layback correction.

S57 feature files for oil and gas infrastructure, bottom samples, obstructions, and wrecks have been submitted in a Caris Notebook project.

All TPE values were calculated using the following settings.





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**LETTER OF APPROVAL**

REGISTRY NUMBER H12069

This report and the accompanying smooth sheet are respectfully submitted.

Field operations contributing to the accomplishment of the survey H12069 were conducted under my direct supervision with frequent personal checks of progress and adequacy. This report and CARIS project have been closely reviewed and are considered complete and adequate as per the Statement of Work.

This report is accompanied by the Data Acquisition and Processing Report for project OPR-K354-KR-09.

A handwritten signature in black ink, appearing to read "JB", is centered on the page.

---

John Baker  
Chief of Party  
C&C Technologies  
April 2010



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**APPENDIX I**

**DANGER TO NAVIGATION REPORTS**

# H12069 Danger to Navigation #01

**Registry Number:** H12069  
**State:** Louisiana  
**Locality:** Gulf of Mexico  
**Sub-locality:** 15 NM S of Entrance to Lake Pelto  
**Project Number:** OPR-K354-KR-09  
**Survey Date:** 03/20/2010

## Charts Affected

Number	Edition	Date	Scale (RNC)	RNC Correction(s)*
11357	41st	05/01/2011	1:80,000 (11357_1)	USCG LNM: 5/24/2011 (5/31/2011) NGA NTM: 10/16/2010 (6/4/2011)
11340	73rd	08/01/2008	1:458,596 (11340_1)	[L]NTM: ?
1116A	73rd	08/01/2008	1:458,596 (1116A_1)	[L]NTM: ?
411	52nd	09/01/2007	1:2,160,000 (411_1)	[L]NTM: ?

\* Correction(s) - source: last correction applied (last correction reviewed--"cleared date")

## Features

No.	Name	Feature Type	Survey Depth	Survey Latitude	Survey Longitude	AWOIS Item
1.1	DtoN #01 - AWOIS #272 - 42ft OBSTRN	Obstruction	12.815m	29° 44' 26.11" N	90° 44' 41.11" W	272

# **1 - Dangers To Navigation**

## 1.1) DtoN #01 - AWOIS #272 - 42ft OBSTRN

### DANGER TO NAVIGATION

#### Survey Summary

**Survey Position:** 28° 44' 22.998" N, 090° 44' 44.665" W  
**Least Depth:** 12.815 m (= 42.044 ft = 7.007 fm = 7 fm 0.044 ft)  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 2010-079.01:16:49.000 (03/20/2010)  
**GP Dataset:** H12069\_DtoN#1.xls  
**GP No.:** 1  
**Charts Affected:** 11357\_1, 1116A\_1, 11340\_1, 411\_1

#### Remarks:

Least depth measurement of this obstruction is 42.044 feet in charted 57 ft depths. After observed tide corrections, the surveyed depths in this area are 63 feet, meaning this obstruction protrudes 21 feet above the sea floor. The obstruction was located with sidescan sonar and further developed using a multibeam echo sounder.

#### Feature Correlation

Address	Feature	Range	Azimuth	Status
H12069_DtoN#1.xls	1	0.00	000.0	Primary

#### Hydrographer Recommendations

It is recommended that this item be charted as a 42 ft Obstruction at 28/44/23N 090/44/45W.

#### Cartographically-Rounded Depth (Affected Charts):

42ft (11357\_1)

7fm (1116A\_1, 11340\_1, 411\_1)

#### S-57 Data

**Geo object 1:** Obstruction (OBSTRN)  
**Attributes:** QUASOU - 6:least depth known  
 SORDAT - 20100408  
 SORIND - US,US,graph,H12069

TECSOU - 2,3:found by side scan sonar,found by multi-beam

VALSOU - 12.815 m

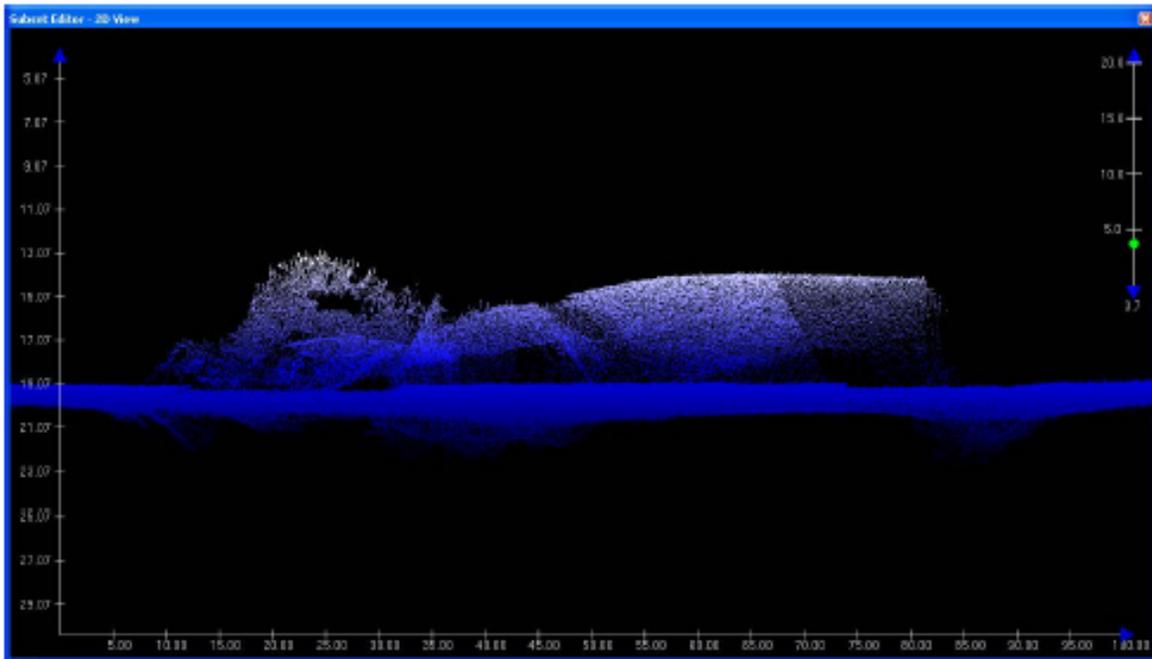
WATLEV - 3:always under water/submerged

## Office Notes

AHB SAR: Danger to Navigation located at survey position by 200% SSS and Object Detection MBES. This feature is interpreted as the historical wreck "R.M. Parker" (AWOIS #272), and the original DtoN submission was revised from a WRECK to an OBSTRN at the request of Bruce Terrel, a Historian/Archaeologist of the NOAA Maritime Heritage Program (see correspondence in DR Appendix V).

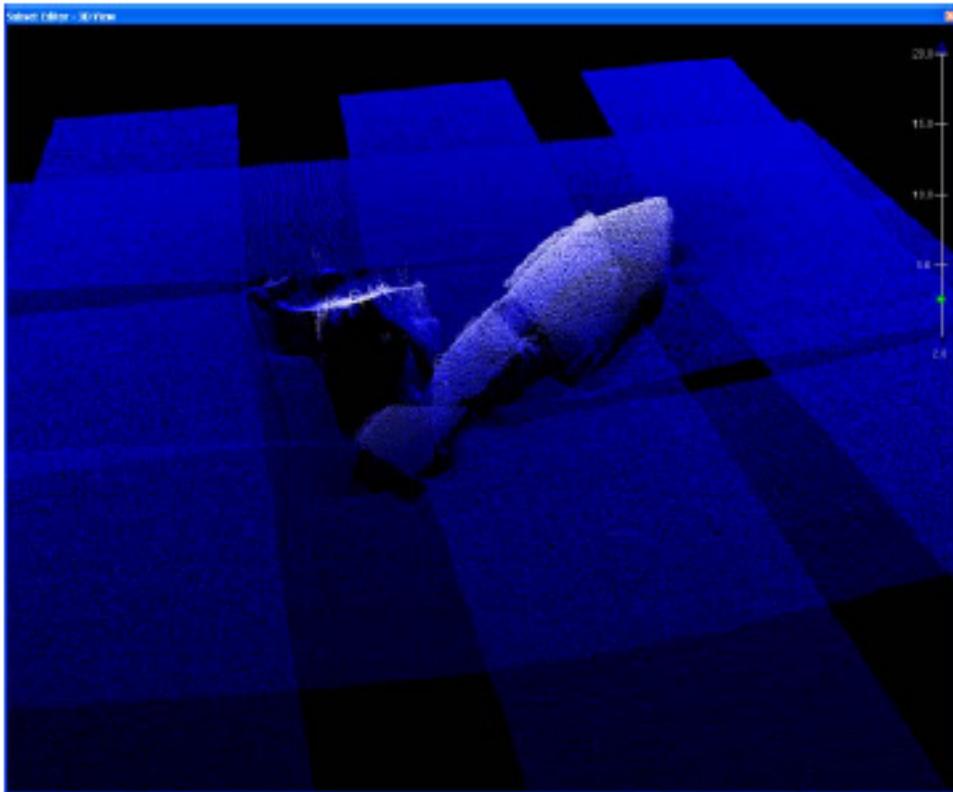
AHB Compile: Concur with clarification. The feature is shown on chart 11357 (41st Edition, May 2011) and smaller scale charts as an obstruction, least depth 42ft. Office processing determined that the position and least depth are different from the initial DtoN Submission to MCD. Delete charted obstruction. Add 42ft OBSTRN at survey position.

## Feature Images



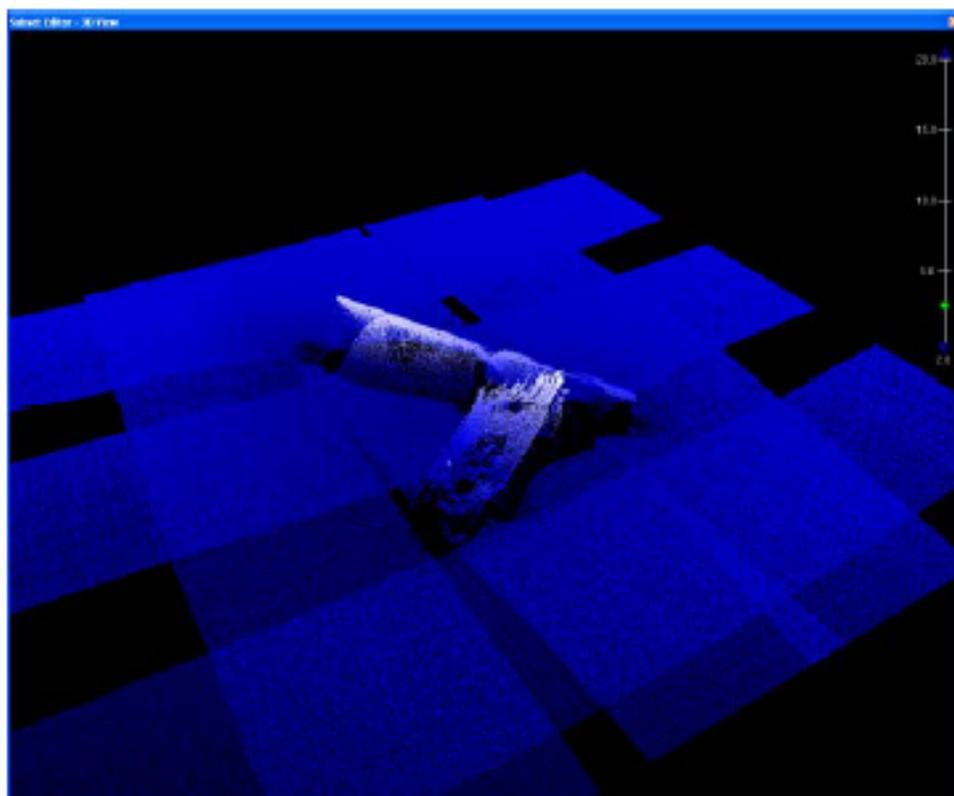
*Multibeam profile view in CARIS HIPS and SIPS*

Figure 1.1.1



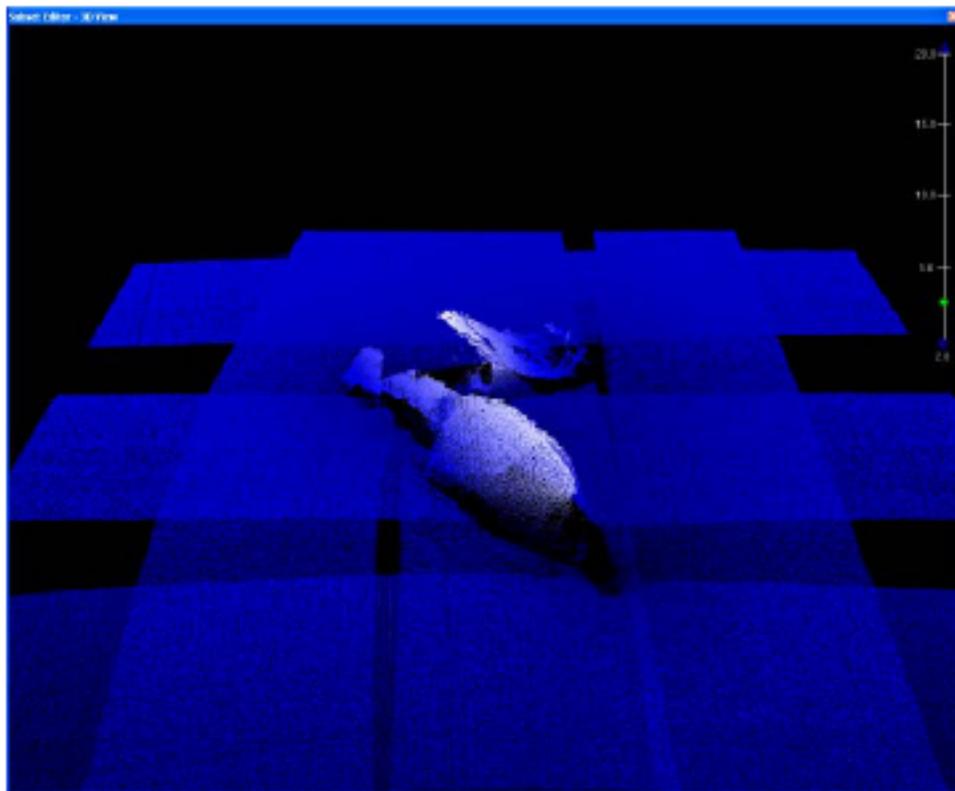
*Multibeam 3D view in CARIS HIPS and SIPS*

Figure 1.1.2



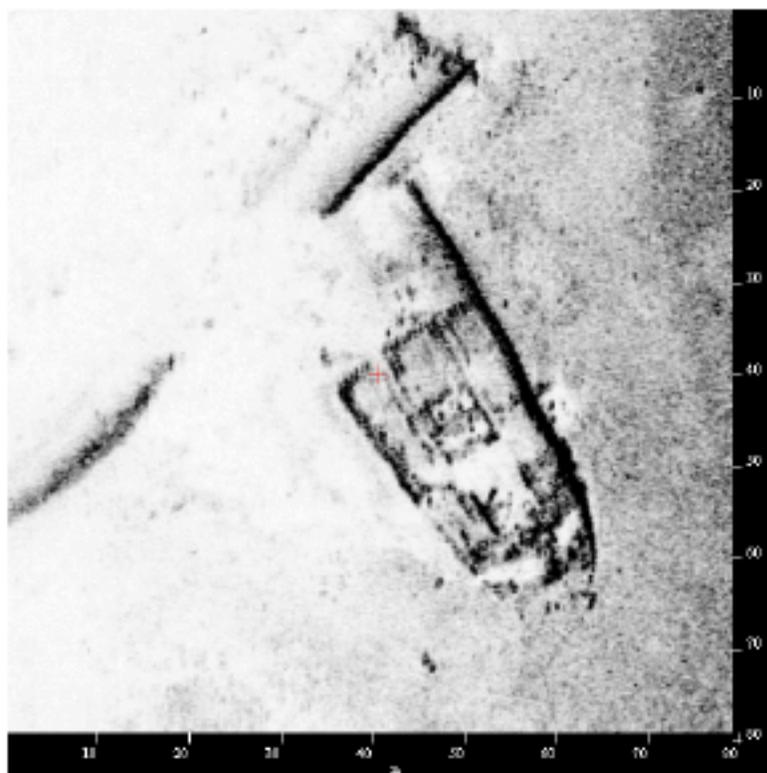
*Multibeam 3D view in CARIS HIPS and SIPS*

Figure 1.1.3



*Multibeam 3D view in CARIS HIPS and SIPS*

Figure 1.1.4



*Sidescan Sonar image in Sonarwiz MAP*

Figure 1.1.5



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**APPENDIX II**

**SURVEY FEATURE REPORT**

## Appendix II - AWOIS Features

**Registry Number:** H12069  
**State:** Louisiana  
**Locality:** Gulf of Mexico  
**Sub-locality:** 15NM S of Entrance to Lake Pelto  
**Project Number:** OPR-K354-KR-09  
**Survey Dates:** 20091013 - 20100408

### Charts Affected

Number	Edition	Date	Scale (RNC)	RNC Correction(s)*
11357	39th	02/01/2008	1:80,000 (11357_1)	[L]NTM: ?
11356	38th	06/01/2008	1:80,000 (11356_1)	[L]NTM: ?
11340	73rd	08/01/2008	1:458,596 (11340_1)	[L]NTM: ?
1116A	73rd	08/01/2008	1:458,596 (1116A_1)	[L]NTM: ?
411	52nd	09/01/2007	1:2,160,000 (411_1)	[L]NTM: ?

\* Correction(s) - source: last correction applied (last correction reviewed--"cleared date")

### Features

No.	Name	Feature Type	Survey Depth	Survey Latitude	Survey Longitude	AWOIS Item
1.1	AWOIS 14642 - disproval	GP	[None]	28° 49' 56.1" N	090° 50' 09.7" W	---
1.2	AWOIS 14641 - disproval	GP	[None]	28° 50' 33.3" N	090° 50' 03.0" W	---
1.3	AWOIS 8432 - 26ft WRECK	Wreck	8.09 m	28° 51' 58.9" N	090° 49' 50.5" W	---
1.4	AWOIS 9541 - 58ft OBSTRN	Obstruction	17.72 m	28° 47' 27.1" N	090° 46' 17.6" W	---
1.5	AWOIS 273 - disproval	GP	[None]	28° 47' 01.0" N	090° 44' 59.0" W	---

**1 - DR\_AWOIS**

## 1.1) AWOIS 14642 - disproval

### Survey Summary

**Survey Position:** 28° 49' 56.1" N, 090° 50' 09.7" W  
**Least Depth:** [None]  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 1981-001.00:00:00.000 (01/01/1981)  
**GP Dataset:** AHB\_H12069 / SAR / SAR AHB HOB Files / H12069\_AWOIS.000  
**GP No.:** 02260006FF500001  
**Charts Affected:** 11356\_1, 11357\_1, 1116A\_1, 11340\_1, 411\_1

#### Remarks:

DR, D.1.6, p.14:

"Description: Obstruction

Search Radius: 300m

Investigation Method: 200% SSS with concurrent MBES

Investigation Summary: This AWOIS item is described as an obstruction, and is also found on charts 11356, 11357 and 11340 as a submerged Obstn PA. No evidence of this item was found during the survey."

### Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12069/SAR/SAR AHB HOB Files/H12069_AWOIS.000	02260006FF500001	0.00	000.0	Primary

### Hydrographer Recommendations

DR, D.1.6, p.14:

"It is recommended that this feature be removed from the charts."

### S-57 Data

**Geo object 1:** Cartographic symbol (\$CSYMB)  
**Attributes:** INFORM - AWOIS 14642  
 NINFOM - disproval

## Office Notes

AHB SAR: Survey coverage meets AWOIS search radius requirement. Charted AWOIS feature is considered disproved by 200% SSS.

AHB Compile: Concur. Delete OBSTRN.

## 1.2) AWOIS 14641 - disproval

### Survey Summary

**Survey Position:** 28° 50' 33.3" N, 090° 50' 03.0" W  
**Least Depth:** [None]  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 1981-001.00:00:00.000 (01/01/1981)  
**GP Dataset:** AHB\_H12069 / SAR / SAR AHB HOB Files / H12069\_AWOIS.000  
**GP No.:** 02260006FC0D0001  
**Charts Affected:** 11356\_1, 11357\_1, 1116A\_1, 11340\_1, 411\_1

#### Remarks:

DR, D.1.6, p.13:

"Description: Obstruction

Search Radius: Unknown

Investigation Method: 200% SSS with concurrent MBES

Investigation Summary: This AWOIS item is described as an obstruction, and is also found on charts 11356, 11357 and 11340 as a submerged Obstn PA. No evidence of this item was found during the survey."

### Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12069/SAR/SAR AHB HOB Files/H12069_AWOIS.000	02260006FC0D0001	0.00	000.0	Primary

### Hydrographer Recommendations

DR, D.1.6, p.13:

"It is recommended that this feature be removed from the charts."

### S-57 Data

**Geo object 1:** Cartographic symbol (\$CSYMB)  
**Attributes:** INFORM - AWOIS 14641  
 NINFOM - disproval

## Office Notes

AHB SAR: Survey coverage meets AWOIS search radius requirement. Charted AWOIS feature is considered disproved by 200% SSS.

AHB Compile: Concur. Delete OBSTRN.

### 1.3) AWOIS 8432 - 26ft WRECK

#### Survey Summary

**Survey Position:** 28° 51' 58.9" N, 090° 49' 50.5" W  
**Least Depth:** 8.09 m (= 26.54 ft = 4.423 fm = 4 fm 2.54 ft)  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 2010-098.00:00:00.000 (04/08/2010)  
**GP Dataset:** AHB\_H12069 / SAR / SAR AHB HOB Files / H12069\_AWOIS.000  
**GP No.:** 02260006FF640001  
**Charts Affected:** 11357\_1, 1116A\_1, 11340\_1, 411\_1

#### Remarks:

DR, D.1.6, p.14:

"Description: Breton Island

Search Radius: 300m

Investigation Method: 200% SSS and Object Detection MBES

Investigation Summary: This AWOIS item is described as the sunken wreck Breton Island, and is also found on charts 11357 and 11340 as a submerged Wk PA. It was found during survey operations with a least depth of 8.089m (26.539ft)."

#### Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12069/SAR/SAR AHB HOB Files/H12069_AWOIS.000	02260006FF640001	0.00	000.0	Primary

#### Hydrographer Recommendations

DR, D.1.6, p.14:

"It is recommended that this feature remain on the chart as a 26ft submerged wreck at the survey position."

#### Cartographically-Rounded Depth (Affected Charts):

26ft (11357\_1)

4 ¼fm (1116A\_1, 11340\_1, 411\_1)

## S-57 Data

**Geo object 1:** Wreck (WRECKS)  
**Attributes:** CATWRK - 2:dangerous wreck  
NINFOM - verified  
QUASOU - 6:least depth known  
SORDAT - 20100408  
SORIND - US,US,graph,H12069  
TECSOU - 2,3:found by side scan sonar,found by multi-beam  
VALSOU - 8.089 m  
WATLEV - 3:always under water/submerged

## Office Notes

AHB SAR: Survey coverage meets AWOIS search radius requirement. Charted AWOIS feature located at survey position by 200% SSS and Object Detection MBES.

AHB Compile: Concur. Add 26ft WRECK at survey position.

### Feature Images

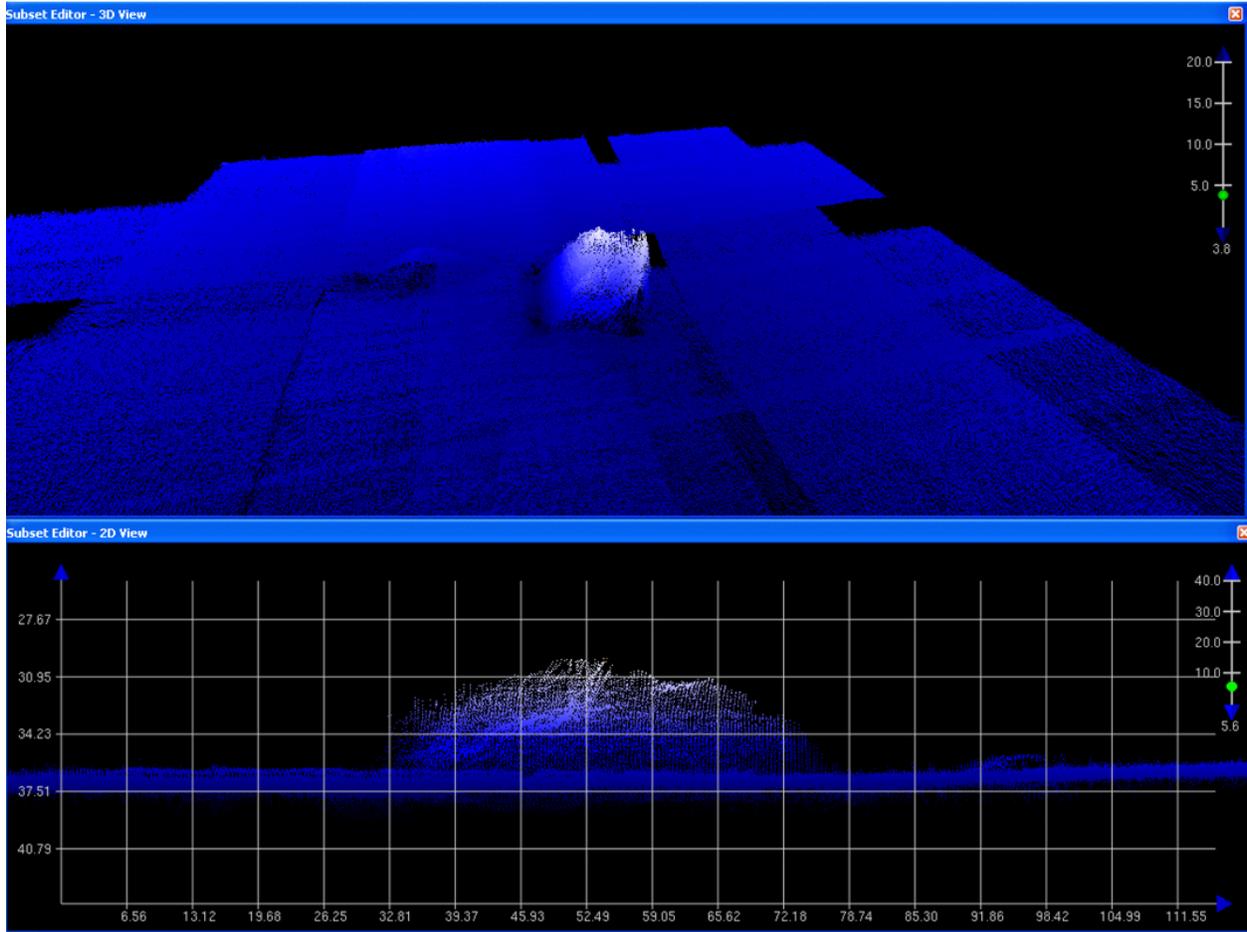


Figure 1.3.1



Figure 1.3.2

## 1.4) AWOIS 9541 - 58ft OBSTRN

### Survey Summary

**Survey Position:** 28° 47' 27.1" N, 090° 46' 17.6" W  
**Least Depth:** 17.72 m (= 58.13 ft = 9.688 fm = 9 fm 4.13 ft)  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 2010-098.00:00:00.000 (04/08/2010)  
**GP Dataset:** AHB\_H12069 / SAR / SAR AHB HOB Files / H12069\_AWOIS.000  
**GP No.:** 02260006FF620001  
**Charts Affected:** 11357\_1, 1116A\_1, 11340\_1, 411\_1

#### Remarks:

DR, D.1.6, p.12:

"Description: Obstruction

Search Radius: 50m

Investigation Method: 200% SSS and Object Detection MBES

Investigation Summary: This AWOIS item is described as an obstruction, and is also found on charts 11357 and 11340 as a submerged Obstrn. It was found during survey operations with a least depth of 17.718m (58.130ft)."

### Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12069/SAR/SAR AHB HOB Files/H12069_AWOIS.000	02260006FF620001	0.00	000.0	Primary

### Hydrographer Recommendations

DR, D.1.6, p.12:

"It is recommended that this feature remain on the chart as a 58ft submerged obstruction at the survey position."

#### Cartographically-Rounded Depth (Affected Charts):

58ft (11357\_1)

9  $\frac{3}{4}$ fm (1116A\_1, 11340\_1, 411\_1)

## S-57 Data

**Geo object 1:** Obstruction (OBSTRN)

**Attributes:** NINFOM - verified  
QUASOU - 6:least depth known  
SORDAT - 20100408  
SORIND - US,US,graph,H12069  
TECSOU - 2,3:found by side scan sonar,found by multi-beam  
VALSOU - 17.718 m  
WATLEV - 3:always under water/submerged

## Office Notes

AHB SAR: Survey coverage meets AWOIS search radius requirement. Charted AWOIS feature located at survey position by 200% SSS and Object Detection MBES.

AHB Compile: Concur. Add 58ft OBSTRN at survey position.

### Feature Images

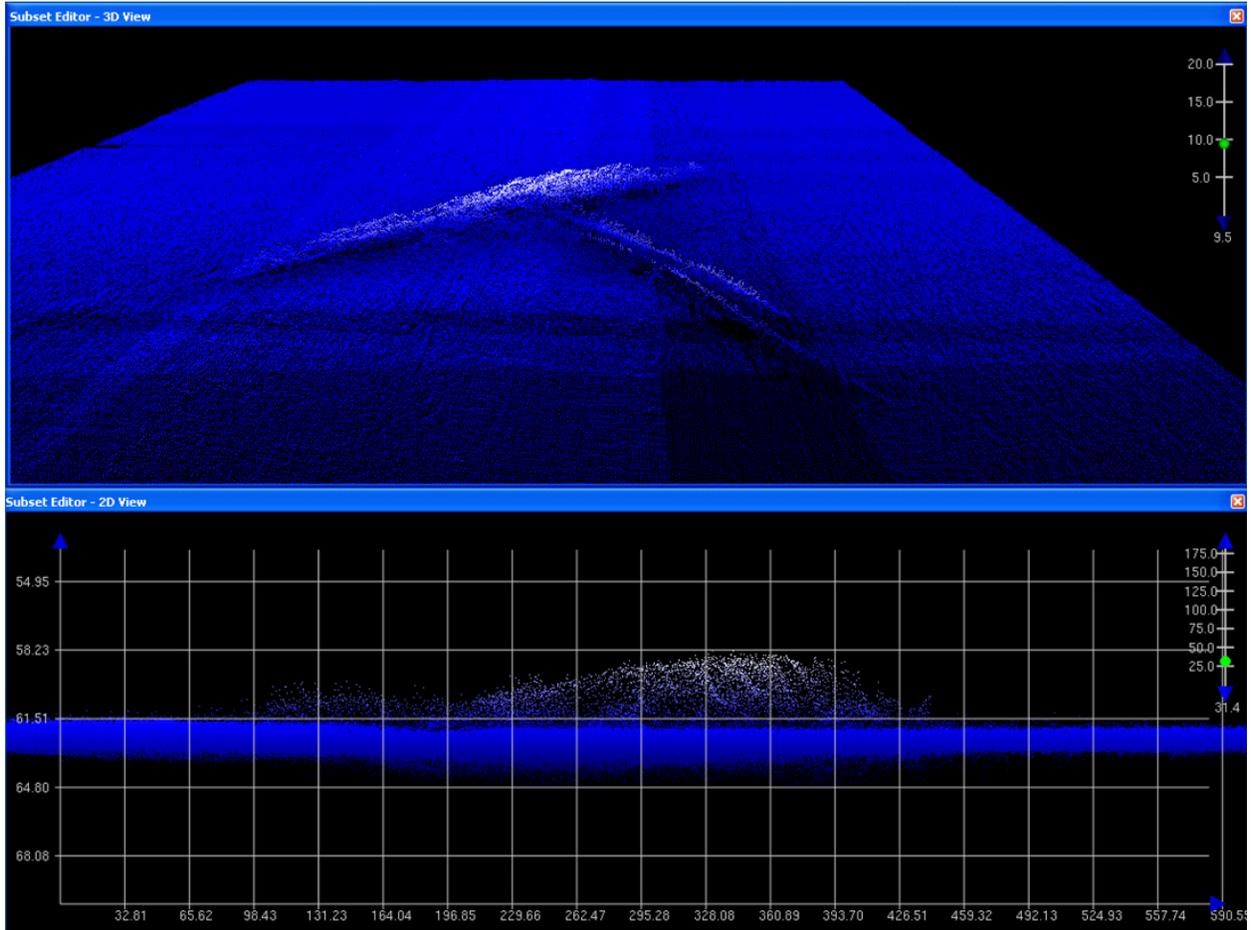


Figure 1.4.1

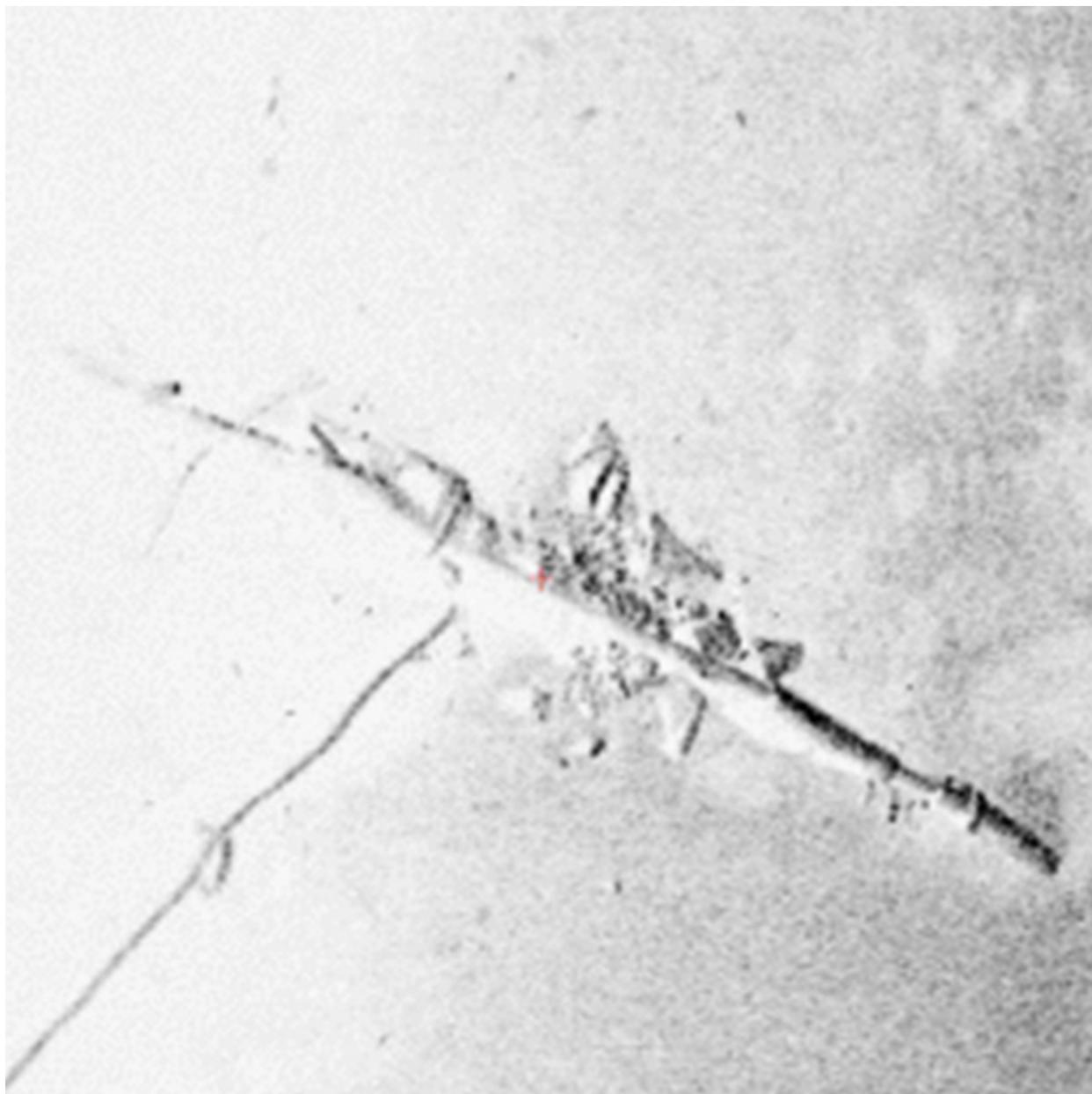


Figure 1.4.2

## 1.5) AWOIS 273 - disproval

### Survey Summary

**Survey Position:** 28° 47' 01.0" N, 090° 44' 59.0" W  
**Least Depth:** [None]  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 1981-001.00:00:00.000 (01/01/1981)  
**GP Dataset:** AHB\_H12069 / SAR / SAR AHB HOB Files / H12069\_AWOIS.000  
**GP No.:** 02260006FF560001  
**Charts Affected:** 11357\_1, 1116A\_1, 11340\_1, 411\_1

#### Remarks:

DR, D.1.6, p.12:

"Description: U-166

Search Radius: 2000m

Investigation Method: 200% SSS with concurrent MBES

Investigation Summary: This AWOIS item is described as the sunken wreck U-166, and is also found on charts 11357 and 11340 as a submerged wreck. No evidence of this item was found during the survey."

### Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12069/SAR/SAR AHB HOB Files/H12069_AWOIS.000	02260006FF560001	0.00	000.0	Primary

### Hydrographer Recommendations

DR, D.1.6, p.12:

"It is recommended that this feature be removed from the charts."

### S-57 Data

**Geo object 1:** Cartographic symbol (\$CSYMB)  
**Attributes:** INFORM - AWOIS 273  
 NINFOM - disproval

## Office Notes

AHB SAR: Survey coverage meets AWOIS search radius requirement. This feature is considered disproved at its charted position by 200% SSS. The actual position of the U-166 wreck was positively identified in 5,000 feet of water in the Mississippi Canyon area of the Gulf of Mexico, according to a joint archaeological study conducted by the NOAA Office of Ocean Exploration and C C Technologies in October 2003. The final report of this study was published in October 2004 (see DR Appendix V for Abstract).

AHB Compile: Concur. Delete WRECK.

## Appendix II - Uncharted Features

**Registry Number:** H12069  
**State:** Louisiana  
**Locality:** Gulf of Mexico  
**Sub-locality:** 15NM S of Entrance to Lake Pelto  
**Project Number:** OPR-K354-KR-09  
**Survey Dates:** 20091013 - 20100408

### Charts Affected

Number	Edition	Date	Scale (RNC)	RNC Correction(s)*
11357	39th	02/01/2008	1:80,000 (11357_1)	[L]NTM: ?
11340	73rd	08/01/2008	1:458,596 (11340_1)	[L]NTM: ?
1116A	73rd	08/01/2008	1:458,596 (1116A_1)	[L]NTM: ?
411	52nd	09/01/2007	1:2,160,000 (411_1)	[L]NTM: ?

\* Correction(s) - source: last correction applied (last correction reviewed--"cleared date")

### Features

No.	Name	Feature Type	Survey Depth	Survey Latitude	Survey Longitude	AWOIS Item
1.1	Uncharted OFSPLF - "SS 114 #8"	GP	[None]	28° 51' 40.4" N	090° 49' 42.1" W	---
1.2	Uncharted OFSPLF - "SS 114 J"	GP	[None]	28° 51' 42.5" N	090° 49' 41.8" W	---
1.3	Uncharted 52ft OBSTRN	Obstruction	15.96 m	28° 45' 37.9" N	090° 45' 59.8" W	---
1.4	Uncharted OFSPLF - "PL 19 #54"	GP	[None]	28° 51' 57.4" N	090° 42' 01.1" W	---

**1 - DR\_UnCharted**

## 1.1) Uncharted OFSPLF - "SS 114 #8"

### Survey Summary

**Survey Position:** 28° 51' 40.4" N, 090° 49' 42.1" W  
**Least Depth:** [None]  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 2010-098.00:00:00.000 (04/08/2010)  
**GP Dataset:** AHB\_H12069 / SAR / SAR AHB HOB Files / H12069\_Uncharted.000  
**GP No.:** 02260006FF760001  
**Charts Affected:** 11357\_1, 1116A\_1, 11340\_1, 411\_1

#### Remarks:

AHB SAR: Not documented in DR. Uncharted feature located by 200% SSS.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12069/SAR/SAR AHB HOB Files/H12069_Uncharted.000	02260006FF760001	0.00	000.0	Primary

### Hydrographer Recommendations

Hydrographer recommends to add this uncharted feature.

### S-57 Data

**Geo object 1:** Offshore platform (OFSPLF)  
**Attributes:** CATOFP - 2:production platform  
 NINFOM - verified  
 OBJNAM - SS 114 #8  
 SORDAT - 20100408  
 SORIND - US,US,graph,H12069

### Office Notes

AHB SAR: Uncharted feature located at survey position by 200% SSS.

AHB Compile: Concur. Add OFSPLF at survey position.

## Feature Images



Figure 1.1.1

## 1.2) Uncharted OFSPLF - "SS 114 J"

### Survey Summary

**Survey Position:** 28° 51' 42.5" N, 090° 49' 41.8" W  
**Least Depth:** [None]  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 2010-098.00:00:00.000 (04/08/2010)  
**GP Dataset:** AHB\_H12069 / SAR / SAR AHB HOB Files / H12069\_Uncharted.000  
**GP No.:** 02260006813A0001  
**Charts Affected:** 11357\_1, 1116A\_1, 11340\_1, 411\_1

#### Remarks:

AHB SAR: Not documented in DR. Uncharted feature located by 200% SSS.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12069/SAR/SAR AHB HOB Files/H12069_Uncharted.000	02260006813A0001	0.00	000.0	Primary

### Hydrographer Recommendations

Hydrographer recommends to add this uncharted feature.

### S-57 Data

**Geo object 1:** Offshore platform (OFSPLF)  
**Attributes:** CATOFP - 2:production platform  
 NINFOM - verified  
 OBJNAM - SS 114 J  
 SORDAT - 20100408  
 SORIND - US,US,graph,H12069

### Office Notes

AHB SAR: Uncharted feature located at survey position by 200% SSS.

AHB Compile: Concur. Add OFSPLF at survey position.

## Feature Images

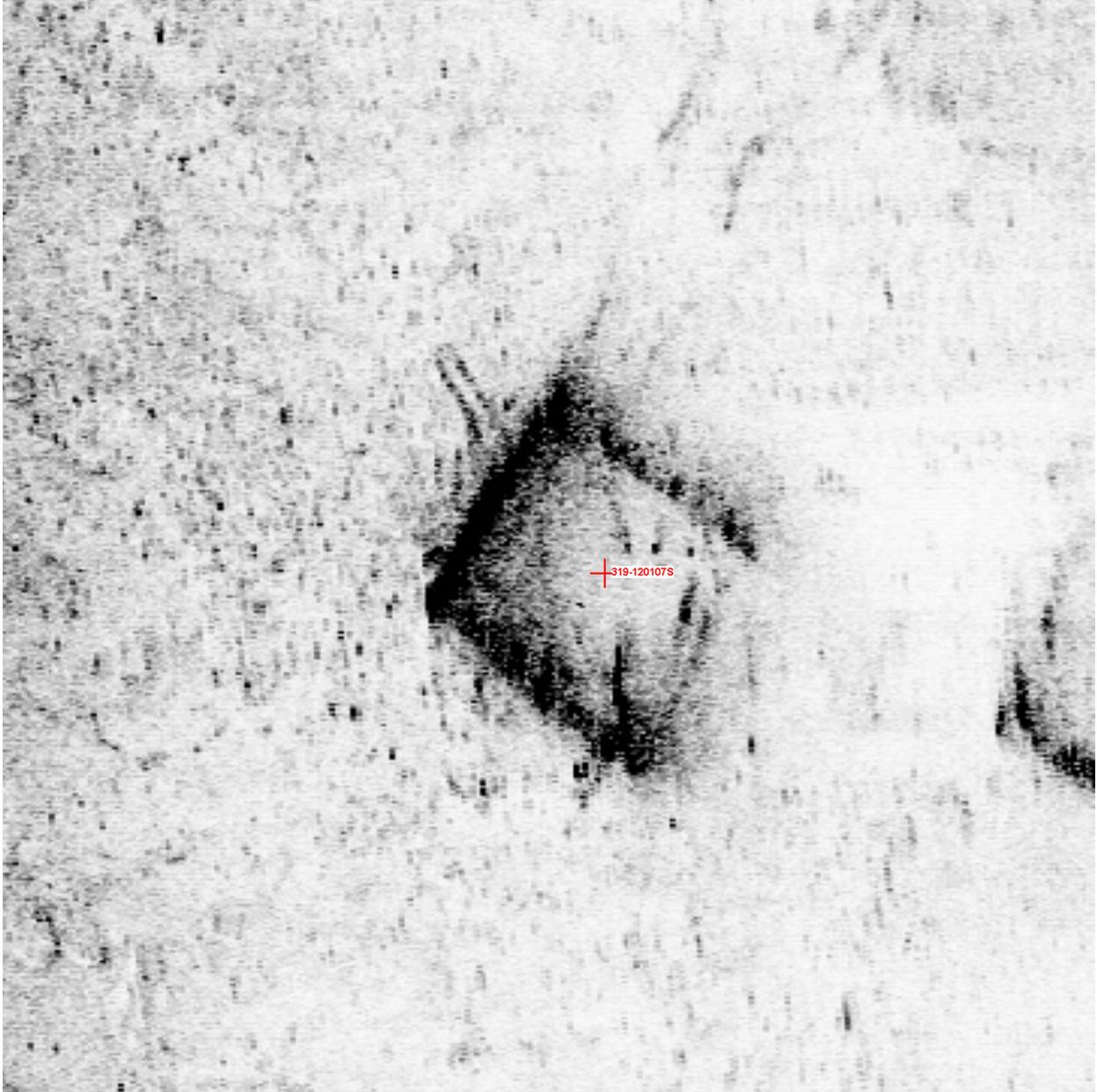


Figure 1.2.1

## 1.3) Uncharted 52ft OBSTRN

### Survey Summary

**Survey Position:** 28° 45' 37.9" N, 090° 45' 59.8" W  
**Least Depth:** 15.96 m (= 52.35 ft = 8.725 fm = 8 fm 4.35 ft)  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 2010-098.00:00:00.000 (04/08/2010)  
**GP Dataset:** AHB\_H12069 / SAR / SAR AHB HOB Files / H12069\_Uncharted.000  
**GP No.:** 02260006FFCA0001  
**Charts Affected:** 11357\_1, 1116A\_1, 11340\_1, 411\_1

#### Remarks:

AHB SAR: Not documented in DR. Uncharted feature was located by 200% SSS and concurrent MBES.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12069/SAR/SAR AHB HOB Files/H12069_Uncharted.000	02260006FFCA0001	0.00	000.0	Primary

### Hydrographer Recommendations

[None]

#### Cartographically-Rounded Depth (Affected Charts):

52ft (11357\_1)

8  $\frac{3}{4}$ fm (1116A\_1, 11340\_1, 411\_1)

### S-57 Data

**Geo object 1:** Obstruction (OBSTRN)  
**Attributes:** NINFOM - verified  
 QUASOU - 6:least depth known  
 SORDAT - 20100408  
 SORIND - US,US,graph,H12069  
 TECSOU - 2,3:found by side scan sonar,found by multi-beam  
 VALSOU - 15.956 m  
 WATLEV - 3:always under water/submerged

## Office Notes

AHB SAR: The feature was not addressed by the contractor. Uncharted feature located at survey position by 200% SSS and concurrent MBES.

AHB Compile: Concur. Add 52ft OBSTRN at survey position.

### Feature Images

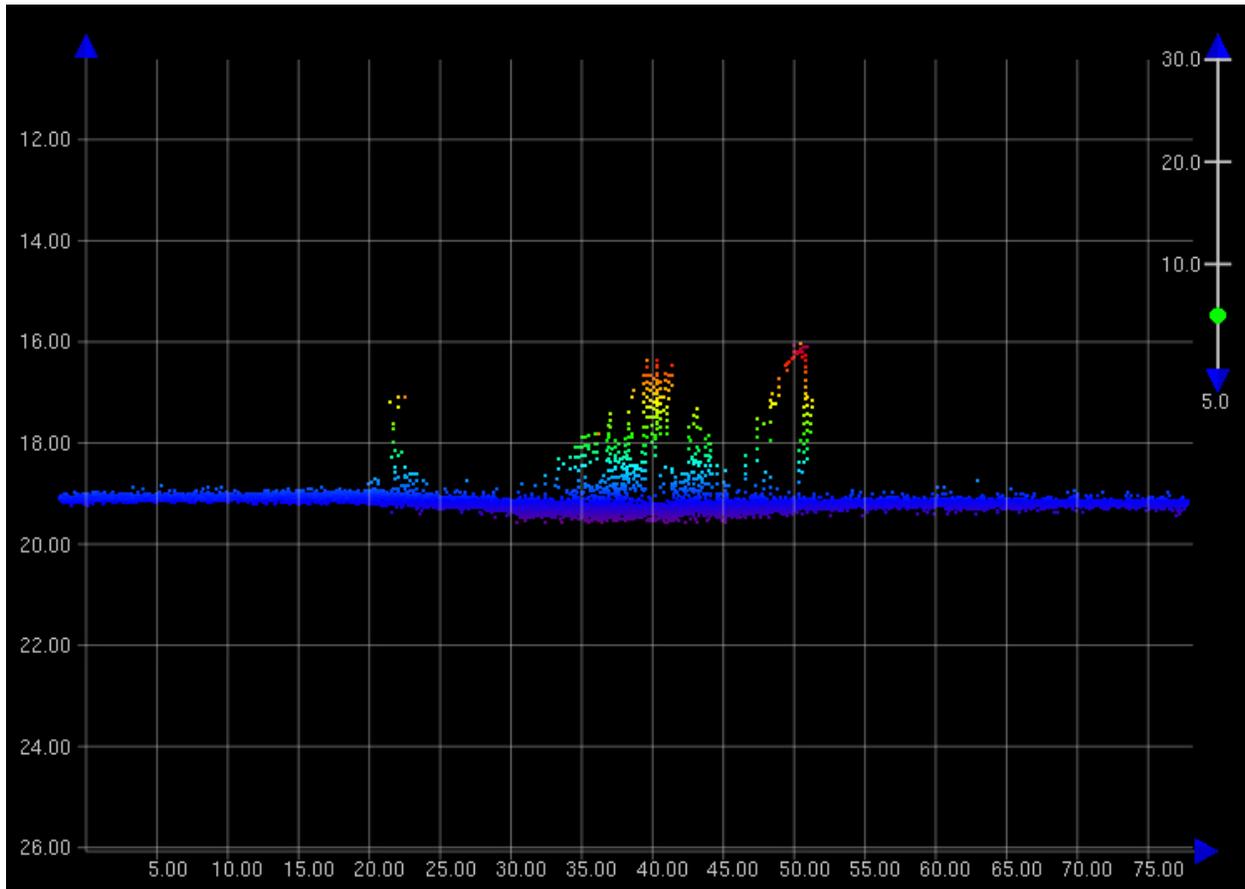


Figure 1.3.1

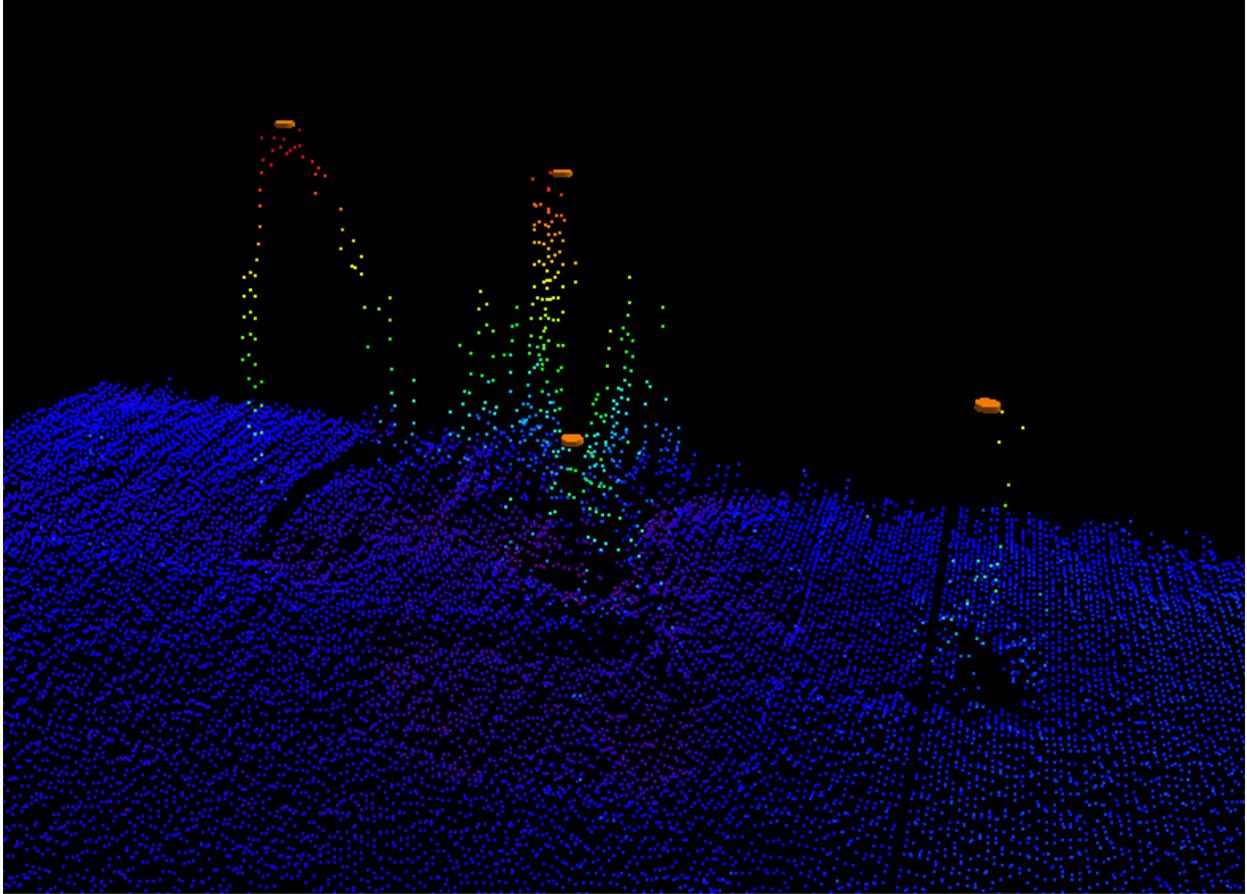


Figure 1.3.2

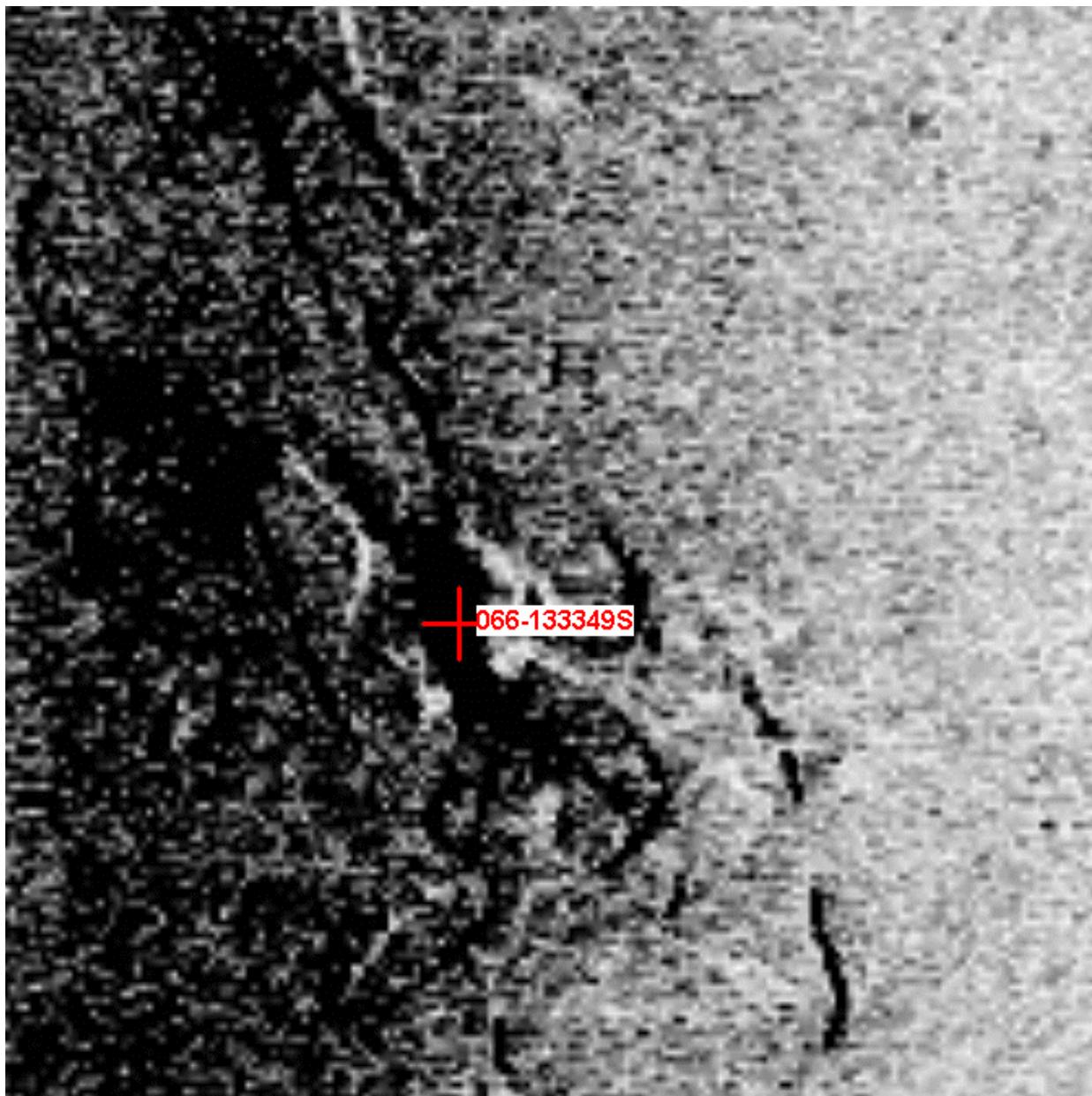


Figure 1.3.3

## 1.4) Uncharted OFSPLF - "PL 19 #54"

### Survey Summary

**Survey Position:** 28° 51' 57.4" N, 090° 42' 01.1" W  
**Least Depth:** [None]  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 2010-098.00:00:00.000 (04/08/2010)  
**GP Dataset:** AHB\_H12069 / SAR / SAR AHB HOB Files / H12069\_Uncharted.000  
**GP No.:** 0226000681380001  
**Charts Affected:** 11357\_1, 1116A\_1, 11340\_1, 411\_1

#### Remarks:

AHB SAR: Not documented in DR. Uncharted feature located by 200% SSS.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12069/SAR/SAR AHB HOB Files/H12069_Uncharted.000	0226000681380001	0.00	000.0	Primary

### Hydrographer Recommendations

Hydrographer recommends to add this uncharted feature.

### S-57 Data

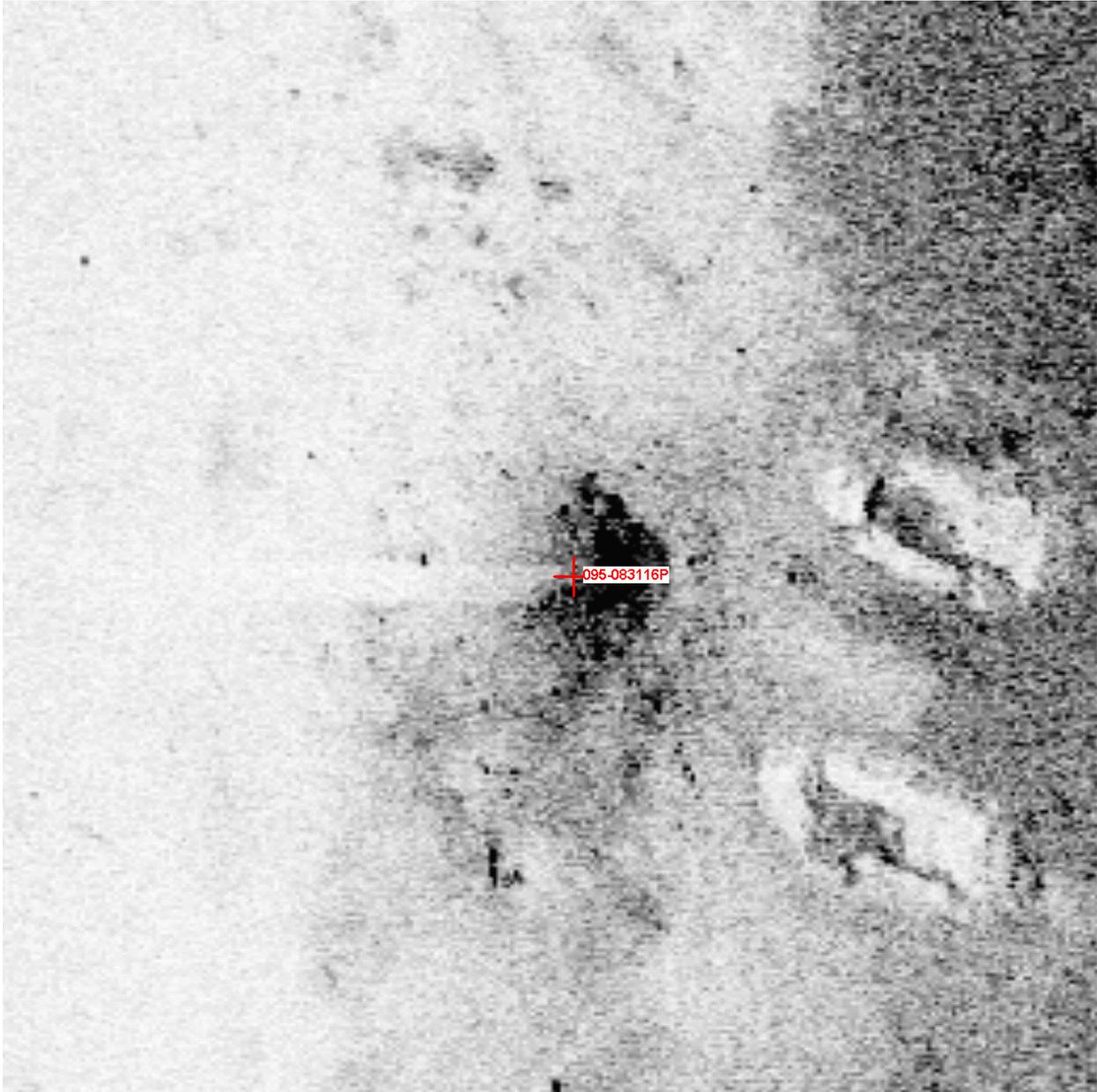
**Geo object 1:** Offshore platform (OFSPLF)  
**Attributes:** CATOFP - 2:production platform  
 NINFOM - verified  
 OBJNAM - PL 19 #54  
 SORDAT - 20100408  
 SORIND - US,US,graph,H12069

### Office Notes

AHB SAR: Uncharted feature located at survey position by 200% SSS.

AHB Compile: Concur. Add OFSPLF at survey position.

## Feature Images



*Figure 1.4.1*

## Appendix II - Charted Features

**Registry Number:** H12069  
**State:** Louisiana  
**Locality:** Gulf of Mexico  
**Sub-locality:** 15NM S of Entrance to Lake Pelto  
**Project Number:** OPR-K354-KR-09  
**Survey Dates:** 20091013 - 20100408

### Charts Affected

Number	Edition	Date	Scale (RNC)	RNC Correction(s)*
11357	39th	02/01/2008	1:80,000 (11357_1)	[L]NTM: ?
11356	38th	06/01/2008	1:80,000 (11356_1)	[L]NTM: ?
11340	73rd	08/01/2008	1:458,596 (11340_1)	[L]NTM: ?
1116A	73rd	08/01/2008	1:458,596 (1116A_1)	[L]NTM: ?
411	52nd	09/01/2007	1:2,160,000 (411_1)	[L]NTM: ?

\* Correction(s) - source: last correction applied (last correction reviewed--"cleared date")

### Features

No.	Name	Feature Type	Survey Depth	Survey Latitude	Survey Longitude	AWOIS Item
1.1	Charted OFSPLF - "SS 118 R"	GP	[None]	28° 48' 51.0" N	090° 52' 19.1" W	---
1.2	Charted OFSPLF - disproval	GP	[None]	28° 50' 14.7" N	090° 51' 06.1" W	---
1.3	Charted OFSPLF - "SS 113 #30"	GP	[None]	28° 50' 21.2" N	090° 50' 59.2" W	---
1.4	Charted OFSPLF - disproval	GP	[None]	28° 50' 02.8" N	090° 50' 57.7" W	---
1.5	Charted OFSPLF - disproval	GP	[None]	28° 50' 22.0" N	090° 50' 56.9" W	---
1.6	Charted OBSTRN (Well cov approx 8ft) - disproval	GP	[None]	28° 50' 24.4" N	090° 50' 56.1" W	---
1.7	Charted OFSPLF - disproval	GP	[None]	28° 50' 13.8" N	090° 50' 52.5" W	---
1.8	Charted OFSPLF - disproval	GP	[None]	28° 50' 02.4" N	090° 50' 51.2" W	---
1.9	Charted OFSPLF - disproval	GP	[None]	28° 50' 11.7" N	090° 50' 50.5" W	---
1.10	Charted OFSPLF - disproval	GP	[None]	28° 49' 01.1" N	090° 50' 49.4" W	---
1.11	Charted OFSPLF - disproval	GP	[None]	28° 50' 09.1" N	090° 50' 48.2" W	---
1.12	Charted OFSPLF - disproval	GP	[None]	28° 50' 02.8" N	090° 50' 47.6" W	---

1.13	Charted OFSPLF - "SS 117 #7"	GP	[None]	28° 49' 02.7" N	090° 50' 41.8" W	---
1.14	Charted OFSPLF - disproval	GP	[None]	28° 50' 09.2" N	090° 50' 36.5" W	---
1.15	Charted OFSPLF - disproval	GP	[None]	28° 49' 07.2" N	090° 50' 33.1" W	---
1.16	Charted OFSPLF - disproval	GP	[None]	28° 50' 14.7" N	090° 50' 32.2" W	---
1.17	Charted OFSPLF - "SS 114 H"	GP	[None]	28° 50' 08.8" N	090° 50' 31.6" W	---
1.18	Charted OFSPLF - "SS 114 U"	GP	[None]	28° 49' 51.8" N	090° 50' 31.6" W	---
1.19	Charted OFSPLF - disproval	GP	[None]	28° 49' 57.0" N	090° 50' 28.7" W	---
1.20	Charted OFSPLF - "SS 114 #58"	GP	[None]	28° 49' 35.8" N	090° 50' 27.4" W	---
1.21	Charted OFSPLF - "SS 114 #12"	GP	[None]	28° 50' 05.3" N	090° 50' 24.8" W	---
1.22	Charted OFSPLF - "SS 117 #4"	GP	[None]	28° 49' 28.8" N	090° 50' 22.2" W	---
1.23	Charted OFSPLF - "SS 114 #51"	GP	[None]	28° 50' 26.3" N	090° 50' 19.9" W	---
1.24	Charted OFSPLF - disproval	GP	[None]	28° 50' 10.7" N	090° 50' 15.3" W	---
1.25	Charted OFSPLF - disproval	GP	[None]	28° 50' 21.8" N	090° 50' 07.4" W	---
1.26	Charted OFSPLF - disproval	GP	[None]	28° 50' 38.0" N	090° 50' 00.9" W	---
1.27	Charted OFSPLF - disproval	GP	[None]	28° 51' 33.8" N	090° 50' 00.7" W	---
1.28	Charted OFSPLF - disproval	GP	[None]	28° 49' 37.7" N	090° 50' 00.4" W	---
1.29	Charted OFSPLF - disproval	GP	[None]	28° 50' 29.9" N	090° 50' 00.4" W	---
1.30	Charted OFSPLF - "SS 114 A"	GP	[None]	28° 49' 59.8" N	090° 49' 54.9" W	---
1.31	Charted OFSPLF - disproval	GP	[None]	28° 51' 42.1" N	090° 49' 51.3" W	---
1.32	Charted OFSPLF - disproval	GP	[None]	28° 51' 40.5" N	090° 49' 35.3" W	---
1.33	Charted OFSPLF - "SS 138 I"	GP	[None]	28° 45' 25.2" N	090° 47' 59.7" W	---
1.34	Charted OFSPLF - disproval	GP	[None]	28° 52' 08.6" N	090° 47' 43.1" W	---
1.35	Charted OFSPLF - disproval	GP	[None]	28° 46' 19.9" N	090° 46' 05.9" W	---
1.36	Charted OBSTRN (Well cov 50ft) - disproval	GP	[None]	28° 45' 44.8" N	090° 46' 03.0" W	---
1.37	Charted OFSPLF - "SS 139"	GP	[None]	28° 47' 05.7" N	090° 46' 01.5" W	---
1.38	Charted OFSPLF - disproval	GP	[None]	28° 46' 22.6" N	090° 45' 20.7" W	---
1.39	Charted OFSPLF - "ST 75 B"	GP	[None]	28° 46' 11.4" N	090° 44' 27.7" W	---
1.40	Charted OFSPLF - "ST 75 C"	GP	[None]	28° 46' 29.3" N	090° 44' 01.4" W	---
1.41	Charted OFSPLF - "SP 21 #1"	GP	[None]	28° 51' 07.1" N	090° 42' 50.7" W	---
1.42	Charted OFSPLF - "PL 22 B"	GP	[None]	28° 50' 41.9" N	090° 41' 38.5" W	---

**1 - DR\_Charted**

## 1.1) Charted OFSPLF - "SS 118 R"

### Survey Summary

**Survey Position:** 28° 48' 51.0" N, 090° 52' 19.1" W  
**Least Depth:** [None]  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 2010-098.00:00:00.000 (04/08/2010)  
**GP Dataset:** AHB\_H12069 / SAR / SAR AHB HOB Files / H12069\_Charted.000  
**GP No.:** 0226000681310001  
**Charts Affected:** 11356\_1, 1116A\_1, 11340\_1, 411\_1

#### Remarks:

AHB SAR: Not documented in DR. Charted feature located by 200% SSS.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12069/SAR/SAR AHB HOB Files/H12069_Charted.000	0226000681310001	0.00	000.0	Primary

### Hydrographer Recommendations

Hydrographer recommends to update the position of this charted feature.

### S-57 Data

**Geo object 1:** Offshore platform (OFSPLF)  
**Attributes:** CATOFP - 2:production platform  
 NINFOM - verified  
 OBJNAM - SS 118 R  
 SORDAT - 20100408  
 SORIND - US,US,graph,H12069

### Office Notes

AHB SAR: Charted feature located at survey position by 200% SSS.

AHB Compile: Concur. Add OFSPLF at survey position.

## Feature Images

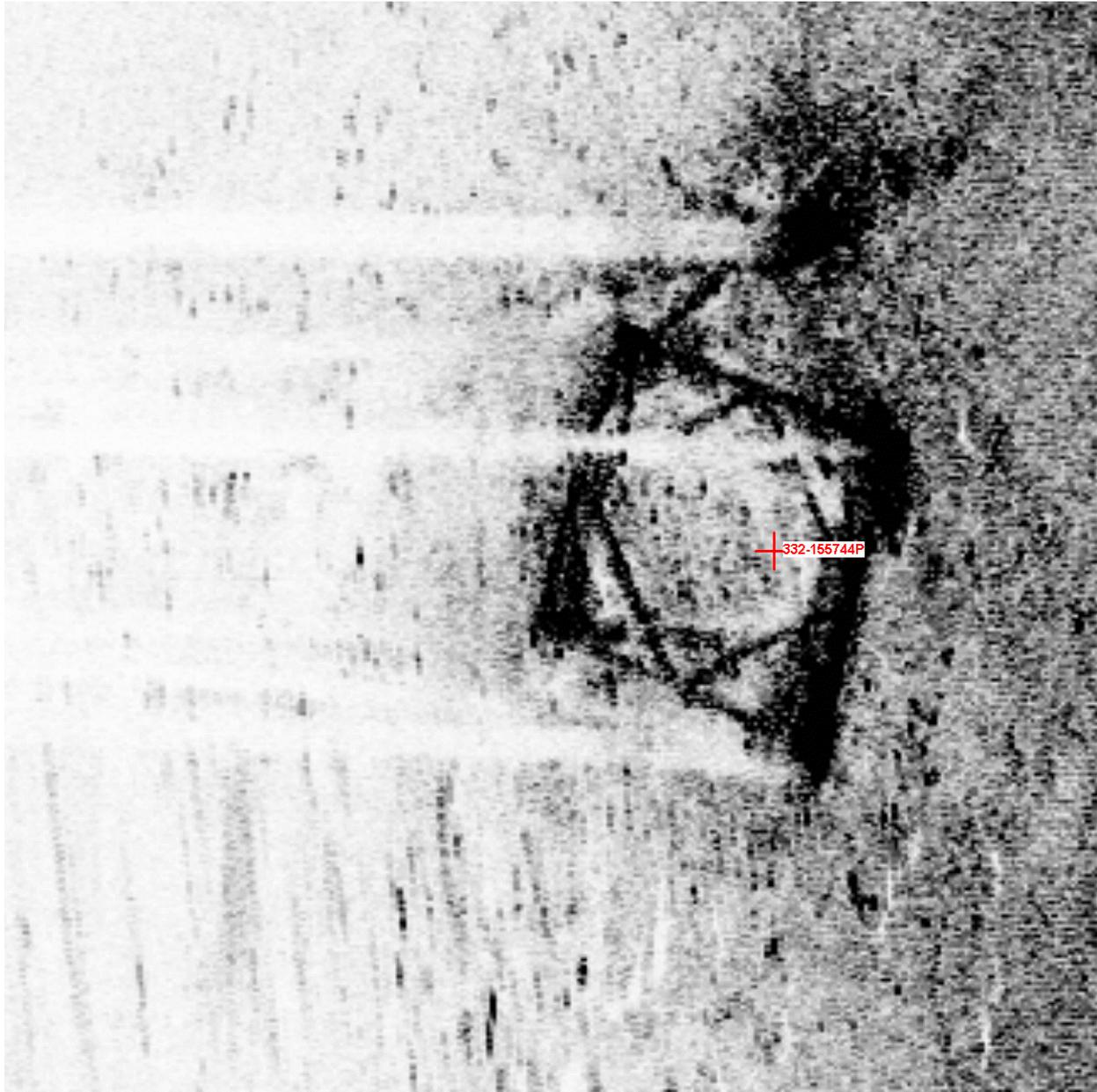


Figure 1.1.1

## 1.2) Charted OFSPLF - disproval

### Survey Summary

**Survey Position:** 28° 50' 14.7" N, 090° 51' 06.1" W  
**Least Depth:** [None]  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 1981-001.00:00:00.000 (01/01/1981)  
**GP Dataset:** AHB\_H12069 / SAR / SAR AHB HOB Files / H12069\_Charted.000  
**GP No.:** 02260006FFB20001  
**Charts Affected:** 11356\_1, 1116A\_1, 11340\_1, 411\_1

#### Remarks:

AHB SAR: Not documented in DR. Feature is considered diproved by 200% SSS.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12069/SAR/SAR AHB HOB Files/H12069_Charted.000	02260006FFB20001	0.00	000.0	Primary

### Hydrographer Recommendations

Hydrographer recommends to delete this charted feature.

### S-57 Data

**Geo object 1:** Cartographic symbol (\$CSYMB)  
**Attributes:** NINFOM - disproval

### Office Notes

AHB SAR: Feature is considered diproved by 200% SSS.

AHB Compile: Concur. Delete OFSPLF.

### 1.3) Charted OFSPLF - "SS 113 #30"

#### Survey Summary

**Survey Position:** 28° 50' 21.2" N, 090° 50' 59.2" W  
**Least Depth:** [None]  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 2010-098.00:00:00.000 (04/08/2010)  
**GP Dataset:** AHB\_H12069 / SAR / SAR AHB HOB Files / H12069\_Charted.000  
**GP No.:** 0226000681280001  
**Charts Affected:** 11356\_1, 11357\_1, 1116A\_1, 11340\_1, 411\_1

#### Remarks:

AHB SAR: Not documented in DR. Charted feature located by 200% SSS.

#### Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12069/SAR/SAR AHB HOB Files/H12069_Charted.000	0226000681280001	0.00	000.0	Primary

#### Hydrographer Recommendations

Hydrographer recommends to update the position of this charted feature.

#### S-57 Data

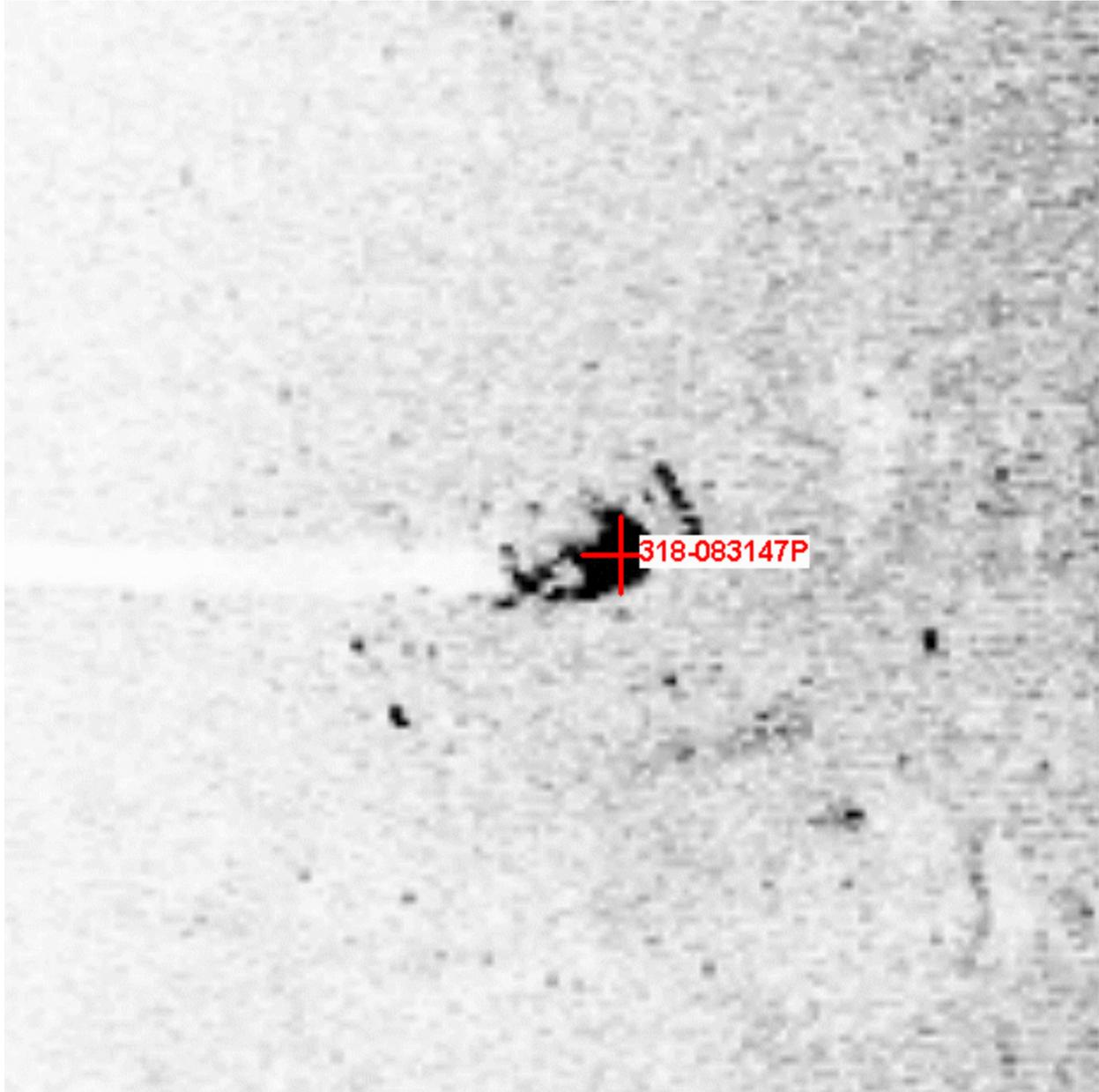
**Geo object 1:** Offshore platform (OFSPLF)  
**Attributes:** CATOFP - 2:production platform  
 NINFOM - verified  
 OBJNAM - SS 113 #30  
 SORDAT - 20100408  
 SORIND - US,US,graph,H12069

#### Office Notes

AHB SAR: Charted feature located at survey position by 200% SSS.

AHB Compile: Concur. Add OFSPLF at survey position.

## Feature Images



*Figure 1.3.1*

## 1.4) Charted OFSPLF - disproval

### Survey Summary

**Survey Position:** 28° 50' 02.8" N, 090° 50' 57.7" W  
**Least Depth:** [None]  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 1981-001.00:00:00.000 (01/01/1981)  
**GP Dataset:** AHB\_H12069 / SAR / SAR AHB HOB Files / H12069\_Charted.000  
**GP No.:** 02260006FF8A0001  
**Charts Affected:** 11356\_1, 11357\_1, 1116A\_1, 11340\_1, 411\_1

#### Remarks:

AHB SAR: Not documented in DR. Feature is considered diproved by 200% SSS.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12069/SAR/SAR AHB HOB Files/H12069_Charted.000	02260006FF8A0001	0.00	000.0	Primary

### Hydrographer Recommendations

Hydrographer recommends to delete this charted feature.

### S-57 Data

**Geo object 1:** Cartographic symbol (\$CSYMB)  
**Attributes:** NINFOM - disproval

### Office Notes

AHB SAR: Feature is considered diproved by 200% SSS.

AHB Compile: Concur. Delete OFSPLF.

## 1.5) Charted OFSPLF - disproval

### Survey Summary

**Survey Position:** 28° 50' 22.0" N, 090° 50' 56.9" W  
**Least Depth:** [None]  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 1981-001.00:00:00.000 (01/01/1981)  
**GP Dataset:** AHB\_H12069 / SAR / SAR AHB HOB Files / H12069\_Charted.000  
**GP No.:** 02260006FF710001  
**Charts Affected:** 11356\_1, 11357\_1, 1116A\_1, 11340\_1, 411\_1

#### Remarks:

AHB SAR: Not documented in DR. Feature is considered diproved by 200% SSS.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12069/SAR/SAR AHB HOB Files/H12069_Charted.000	02260006FF710001	0.00	000.0	Primary

### Hydrographer Recommendations

Hydrographer recommends to delete this charted feature.

### S-57 Data

**Geo object 1:** Cartographic symbol (\$CSYMB)  
**Attributes:** NINFOM - disproval

### Office Notes

AHB SAR: Feature is considered diproved by 200% SSS.

AHB Compile: Concur. Delete OFSPLF.

## 1.6) Charted OBSTRN (Well cov approx 8ft) - disproval

### Survey Summary

**Survey Position:** 28° 50' 24.4" N, 090° 50' 56.1" W  
**Least Depth:** [None]  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 1981-001.00:00:00.000 (01/01/1981)  
**GP Dataset:** AHB\_H12069 / SAR / SAR AHB HOB Files / H12069\_Charted.000  
**GP No.:** 02260006FFBB0001  
**Charts Affected:** 11356\_1, 11357\_1, 1116A\_1, 11340\_1, 411\_1

#### Remarks:

AHB SAR: Not documented in DR. Feature is considered diproved by 200% SSS.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12069/SAR/SAR AHB HOB Files/H12069_Charted.000	02260006FFBB0001	0.00	000.0	Primary

### Hydrographer Recommendations

Hydrographer recommends to delete this charted feature.

### S-57 Data

**Geo object 1:** Cartographic symbol (\$CSYMB)  
**Attributes:** NINFOM - disproval

### Office Notes

AHB SAR: Feature is considered diproved by 200% SSS.

AHB Compile: Concur. Delete OBSTRN.

## 1.7) Charted OFSPLF - disproval

### Survey Summary

**Survey Position:** 28° 50' 13.8" N, 090° 50' 52.5" W  
**Least Depth:** [None]  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 1981-001.00:00:00.000 (01/01/1981)  
**GP Dataset:** AHB\_H12069 / SAR / SAR AHB HOB Files / H12069\_Charted.000  
**GP No.:** 02260006FF990001  
**Charts Affected:** 11356\_1, 11357\_1, 1116A\_1, 11340\_1, 411\_1

#### Remarks:

AHB SAR: Not documented in DR. Feature is considered diproved by 200% SSS.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12069/SAR/SAR AHB HOB Files/H12069_Charted.000	02260006FF990001	0.00	000.0	Primary

### Hydrographer Recommendations

Hydrographer recommends to delete this charted feature.

### S-57 Data

**Geo object 1:** Cartographic symbol (\$CSYMB)  
**Attributes:** NINFOM - disproval

### Office Notes

AHB SAR: Feature is considered diproved by 200% SSS.

AHB Compile: Concur. Delete OFSPLF.

## 1.8) Charted OFSPLF - disproval

### Survey Summary

**Survey Position:** 28° 50' 02.4" N, 090° 50' 51.2" W  
**Least Depth:** [None]  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 1981-001.00:00:00.000 (01/01/1981)  
**GP Dataset:** AHB\_H12069 / SAR / SAR AHB HOB Files / H12069\_Charted.000  
**GP No.:** 02260006FF8C0001  
**Charts Affected:** 11356\_1, 11357\_1, 1116A\_1, 11340\_1, 411\_1

#### Remarks:

AHB SAR: Not documented in DR. Feature is considered diproved by 200% SSS.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12069/SAR/SAR AHB HOB Files/H12069_Charted.000	02260006FF8C0001	0.00	000.0	Primary

### Hydrographer Recommendations

Hydrographer recommends to delete this charted feature.

### S-57 Data

**Geo object 1:** Cartographic symbol (\$CSYMB)  
**Attributes:** NINFOM - disproval

### Office Notes

AHB SAR: Feature is considered diproved by 200% SSS.

AHB Compile: Concur. Delete OFSPLF.

## 1.9) Charted OFSPLF - disproval

### Survey Summary

**Survey Position:** 28° 50' 11.7" N, 090° 50' 50.5" W  
**Least Depth:** [None]  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 1981-001.00:00:00.000 (01/01/1981)  
**GP Dataset:** AHB\_H12069 / SAR / SAR AHB HOB Files / H12069\_Charted.000  
**GP No.:** 02260006FF9A0001  
**Charts Affected:** 11356\_1, 11357\_1, 1116A\_1, 11340\_1, 411\_1

#### Remarks:

AHB SAR: Not documented in DR. Feature is considered diproved by 200% SSS.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12069/SAR/SAR AHB HOB Files/H12069_Charted.000	02260006FF9A0001	0.00	000.0	Primary

### Hydrographer Recommendations

Hydrographer recommends to delete this charted feature.

### S-57 Data

**Geo object 1:** Cartographic symbol (\$CSYMB)  
**Attributes:** NINFOM - disproval

### Office Notes

AHB SAR: Feature is considered diproved by 200% SSS.

AHB Compile: Concur. Delete OFSPLF.

## 1.10) Charted OFSPLF - disproval

### Survey Summary

**Survey Position:** 28° 49' 01.1" N, 090° 50' 49.4" W  
**Least Depth:** [None]  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 1981-001.00:00:00.000 (01/01/1981)  
**GP Dataset:** AHB\_H12069 / SAR / SAR AHB HOB Files / H12069\_Charted.000  
**GP No.:** 02260006FFAF0001  
**Charts Affected:** 11356\_1, 11357\_1, 1116A\_1, 11340\_1, 411\_1

#### Remarks:

AHB SAR: Not documented in DR. Feature is considered diproved by 200% SSS.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12069/SAR/SAR AHB HOB Files/H12069_Charted.000	02260006FFAF0001	0.00	000.0	Primary

### Hydrographer Recommendations

Hydrographer recommends to delete this charted feature.

### S-57 Data

**Geo object 1:** Cartographic symbol (\$CSYMB)  
**Attributes:** NINFOM - disproval

### Office Notes

AHB SAR: Feature is considered diproved by 200% SSS.

AHB Compile: Concur. Delete OFSPLF.

## 1.11) Charted OFSPLF - disproval

### Survey Summary

**Survey Position:** 28° 50' 09.1" N, 090° 50' 48.2" W  
**Least Depth:** [None]  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 1981-001.00:00:00.000 (01/01/1981)  
**GP Dataset:** AHB\_H12069 / SAR / SAR AHB HOB Files / H12069\_Charted.000  
**GP No.:** 02260006FF9B0001  
**Charts Affected:** 11356\_1, 11357\_1, 1116A\_1, 11340\_1, 411\_1

#### Remarks:

AHB SAR: Not documented in DR. Feature is considered diproved by 200% SSS.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12069/SAR/SAR AHB HOB Files/H12069_Charted.000	02260006FF9B0001	0.00	000.0	Primary

### Hydrographer Recommendations

Hydrographer recommends to delete this charted feature.

### S-57 Data

**Geo object 1:** Cartographic symbol (\$CSYMB)  
**Attributes:** NINFOM - disproval

### Office Notes

AHB SAR: Feature is considered diproved by 200% SSS.

AHB Compile: Concur. Delete OFSPLF.

## 1.12) Charted OFSPLF - disproval

### Survey Summary

**Survey Position:** 28° 50' 02.8" N, 090° 50' 47.6" W  
**Least Depth:** [None]  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 1981-001.00:00:00.000 (01/01/1981)  
**GP Dataset:** AHB\_H12069 / SAR / SAR AHB HOB Files / H12069\_Charted.000  
**GP No.:** 02260006FF8B0001  
**Charts Affected:** 11356\_1, 11357\_1, 1116A\_1, 11340\_1, 411\_1

#### Remarks:

AHB SAR: Not documented in DR. Feature is considered diproved by 200% SSS.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12069/SAR/SAR AHB HOB Files/H12069_Charted.000	02260006FF8B0001	0.00	000.0	Primary

### Hydrographer Recommendations

Hydrographer recommends to delete this charted feature.

### S-57 Data

**Geo object 1:** Cartographic symbol (\$CSYMB)  
**Attributes:** NINFOM - disproval

### Office Notes

AHB SAR: Feature is considered diproved by 200% SSS.

AHB Compile: Concur. Delete OFSPLF.

## 1.13) Charted OFSPLF - "SS 117 #7"

### Survey Summary

**Survey Position:** 28° 49' 02.7" N, 090° 50' 41.8" W  
**Least Depth:** [None]  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 2010-098.00:00:00.000 (04/08/2010)  
**GP Dataset:** AHB\_H12069 / SAR / SAR AHB HOB Files / H12069\_Charted.000  
**GP No.:** 0226000681260001  
**Charts Affected:** 11356\_1, 11357\_1, 1116A\_1, 11340\_1, 411\_1

#### Remarks:

AHB SAR: Not documented in DR. Charted feature located by 200% SSS.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12069/SAR/SAR AHB HOB Files/H12069_Charted.000	0226000681260001	0.00	000.0	Primary

### Hydrographer Recommendations

Hydrographer recommends to update the position of this charted feature.

### S-57 Data

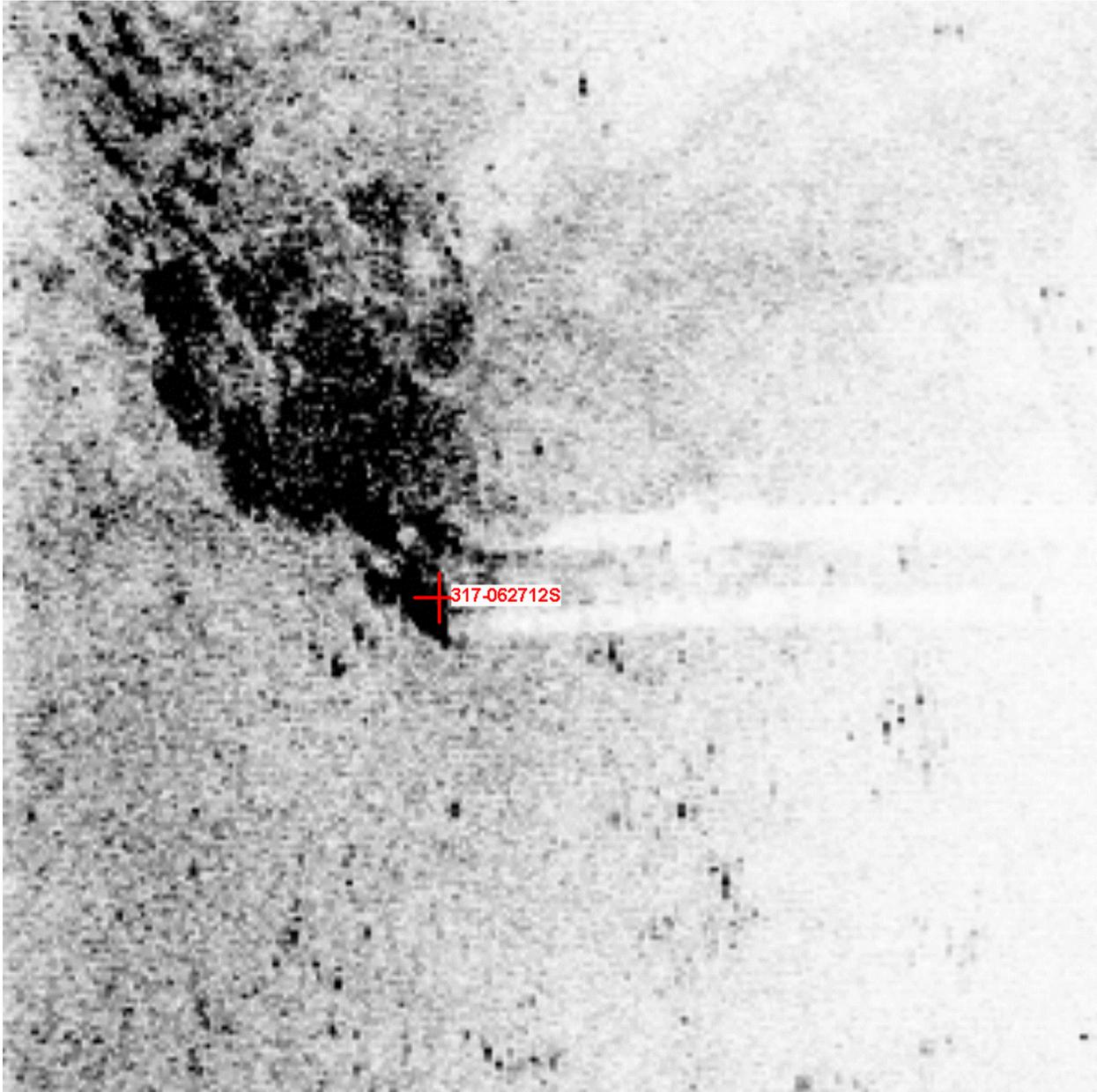
**Geo object 1:** Offshore platform (OFSPLF)  
**Attributes:** CATOFP - 2:production platform  
 NINFOM - verified  
 OBJNAM - SS 117 #7  
 SORDAT - 20100408  
 SORIND - US,US,graph,H12069

### Office Notes

AHB SAR: Charted feature located at survey position by 200% SSS.

AHB Compile: Concur. Add OFSPLF at survey position.

## Feature Images



*Figure 1.13.1*

## 1.14) Charted OFSPLF - disproval

### Survey Summary

**Survey Position:** 28° 50' 09.2" N, 090° 50' 36.5" W  
**Least Depth:** [None]  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 1981-001.00:00:00.000 (01/01/1981)  
**GP Dataset:** AHB\_H12069 / SAR / SAR AHB HOB Files / H12069\_Charted.000  
**GP No.:** 02260006FF920001  
**Charts Affected:** 11356\_1, 11357\_1, 1116A\_1, 11340\_1, 411\_1

#### Remarks:

AHB SAR: Not documented in DR. Feature is considered diproved by 200% SSS.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12069/SAR/SAR AHB HOB Files/H12069_Charted.000	02260006FF920001	0.00	000.0	Primary

### Hydrographer Recommendations

Hydrographer recommends to delete this charted feature.

### S-57 Data

**Geo object 1:** Cartographic symbol (\$CSYMB)  
**Attributes:** NINFOM - disproval

### Office Notes

AHB SAR: Feature is considered diproved by 200% SSS.

AHB Compile: Concur. Delete OFSPLF.

## 1.15) Charted OFSPLF - disproval

### Survey Summary

**Survey Position:** 28° 49' 07.2" N, 090° 50' 33.1" W  
**Least Depth:** [None]  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 1981-001.00:00:00.000 (01/01/1981)  
**GP Dataset:** AHB\_H12069 / SAR / SAR AHB HOB Files / H12069\_Charted.000  
**GP No.:** 02260006FF860001  
**Charts Affected:** 11356\_1, 11357\_1, 1116A\_1, 11340\_1, 411\_1

#### Remarks:

AHB SAR: Not documented in DR. Feature is considered diproved by 200% SSS.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12069/SAR/SAR AHB HOB Files/H12069_Charted.000	02260006FF860001	0.00	000.0	Primary

### Hydrographer Recommendations

Hydrographer recommends to delete this charted feature.

### S-57 Data

**Geo object 1:** Cartographic symbol (\$CSYMB)  
**Attributes:** NINFOM - disproval

### Office Notes

AHB SAR: Feature is considered diproved by 200% SSS.

AHB Compile: Concur. Delete OFSPLF.

## 1.16) Charted OFSPLF - disproval

### Survey Summary

**Survey Position:** 28° 50' 14.7" N, 090° 50' 32.2" W  
**Least Depth:** [None]  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 1981-001.00:00:00.000 (01/01/1981)  
**GP Dataset:** AHB\_H12069 / SAR / SAR AHB HOB Files / H12069\_Charted.000  
**GP No.:** 02260006FF950001  
**Charts Affected:** 11356\_1, 11357\_1, 1116A\_1, 11340\_1, 411\_1

#### Remarks:

AHB SAR: Not documented in DR. Feature is considered diproved by 200% SSS.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12069/SAR/SAR AHB HOB Files/H12069_Charted.000	02260006FF950001	0.00	000.0	Primary

### Hydrographer Recommendations

Hydrographer recommends to delete this charted feature.

### S-57 Data

**Geo object 1:** Cartographic symbol (\$CSYMB)  
**Attributes:** NINFOM - disproval

### Office Notes

AHB SAR: Feature is considered diproved by 200% SSS.

AHB Compile: Concur. Delete OFSPLF.

## 1.17) Charted OFSPLF - "SS 114 H"

### Survey Summary

**Survey Position:** 28° 50' 08.8" N, 090° 50' 31.6" W  
**Least Depth:** [None]  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 2010-098.00:00:00.000 (04/08/2010)  
**GP Dataset:** AHB\_H12069 / SAR / SAR AHB HOB Files / H12069\_Charted.000  
**GP No.:** 02260006812C0001  
**Charts Affected:** 11356\_1, 11357\_1, 1116A\_1, 11340\_1, 411\_1

#### Remarks:

AHB SAR: Not documented in DR. Charted feature located by 200% SSS and concurrent MBES.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12069/SAR/SAR AHB HOB Files/H12069_Charted.000	02260006812C0001	0.00	000.0	Primary

### Hydrographer Recommendations

Hydrographer recommends to update the position of this charted feature.

### S-57 Data

**Geo object 1:** Offshore platform (OFSPLF)  
**Attributes:** CATOFP - 2:production platform  
 NINFOM - verified  
 OBJNAM - SS 114 H  
 SORDAT - 20100408  
 SORIND - US,US,graph,H12069

### Office Notes

AHB SAR: Charted feature located at survey position by 200% SSS and concurrent MBES.

AHB Compile: Concur. Add OFSPLF at survey position.

## Feature Images

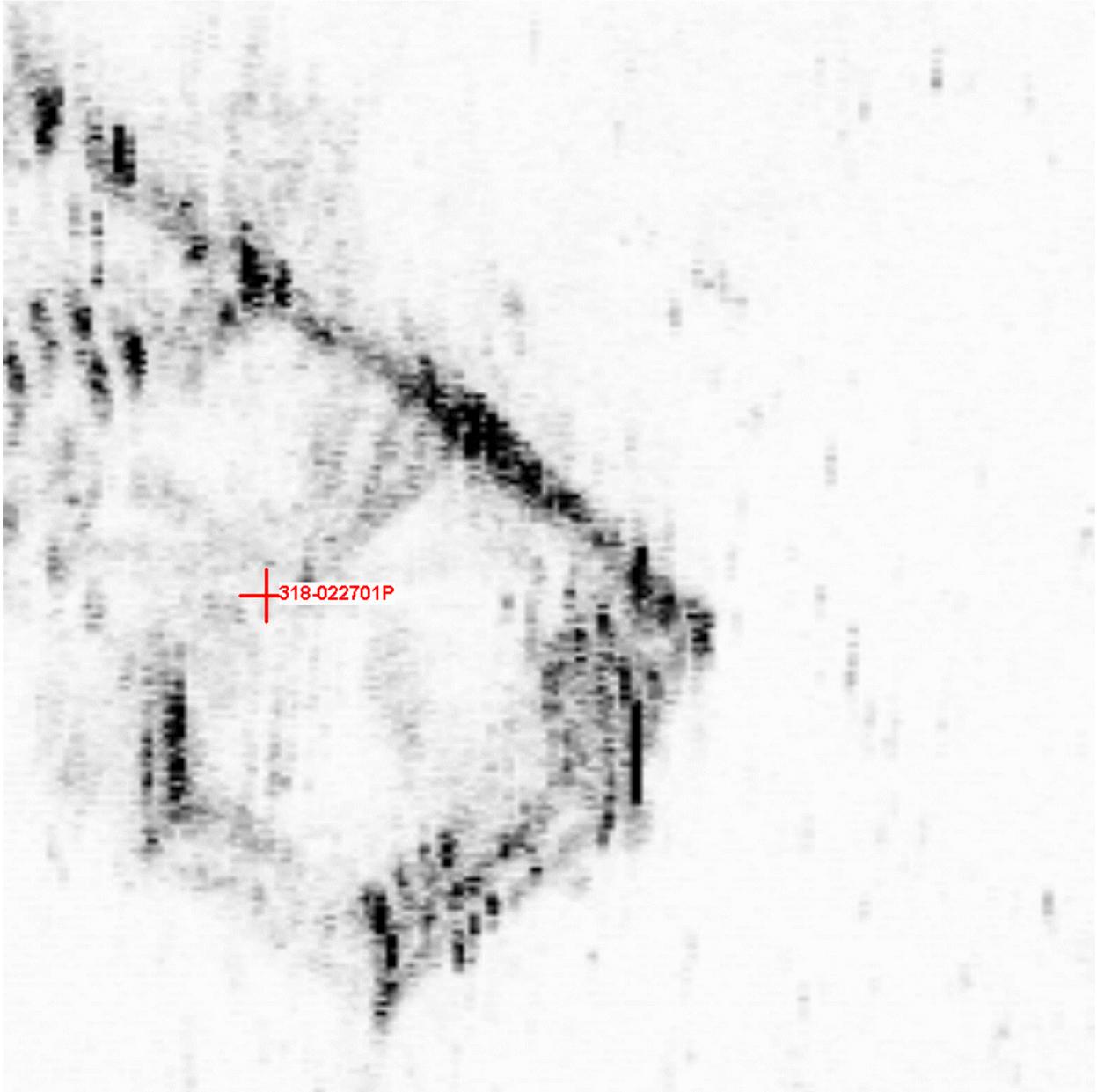
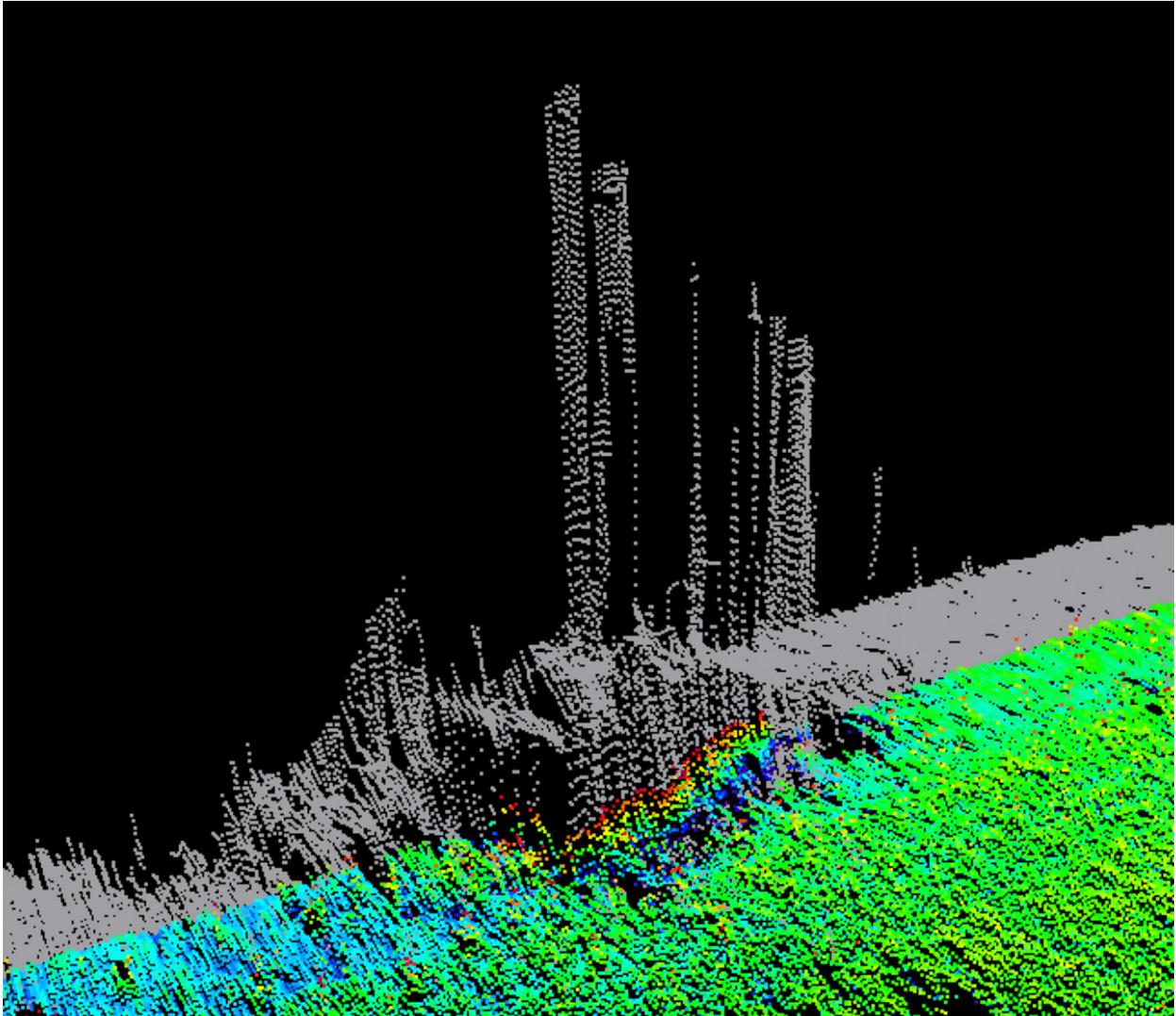


Figure 1.17.1



*Figure 1.17.2*

## 1.18) Charted OFSPLF - "SS 114 U"

### Survey Summary

**Survey Position:** 28° 49' 51.8" N, 090° 50' 31.6" W  
**Least Depth:** [None]  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 2010-098.00:00:00.000 (04/08/2010)  
**GP Dataset:** AHB\_H12069 / SAR / SAR AHB HOB Files / H12069\_Charted.000  
**GP No.:** 0226000681340001  
**Charts Affected:** 11356\_1, 11357\_1, 1116A\_1, 11340\_1, 411\_1

#### Remarks:

AHB SAR: Not documented in DR. Charted feature located by 200% SSS and concurrent MBES.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12069/SAR/SAR AHB HOB Files/H12069_Charted.000	0226000681340001	0.00	000.0	Primary

### Hydrographer Recommendations

Hydrographer recommends to update the position of this charted feature.

### S-57 Data

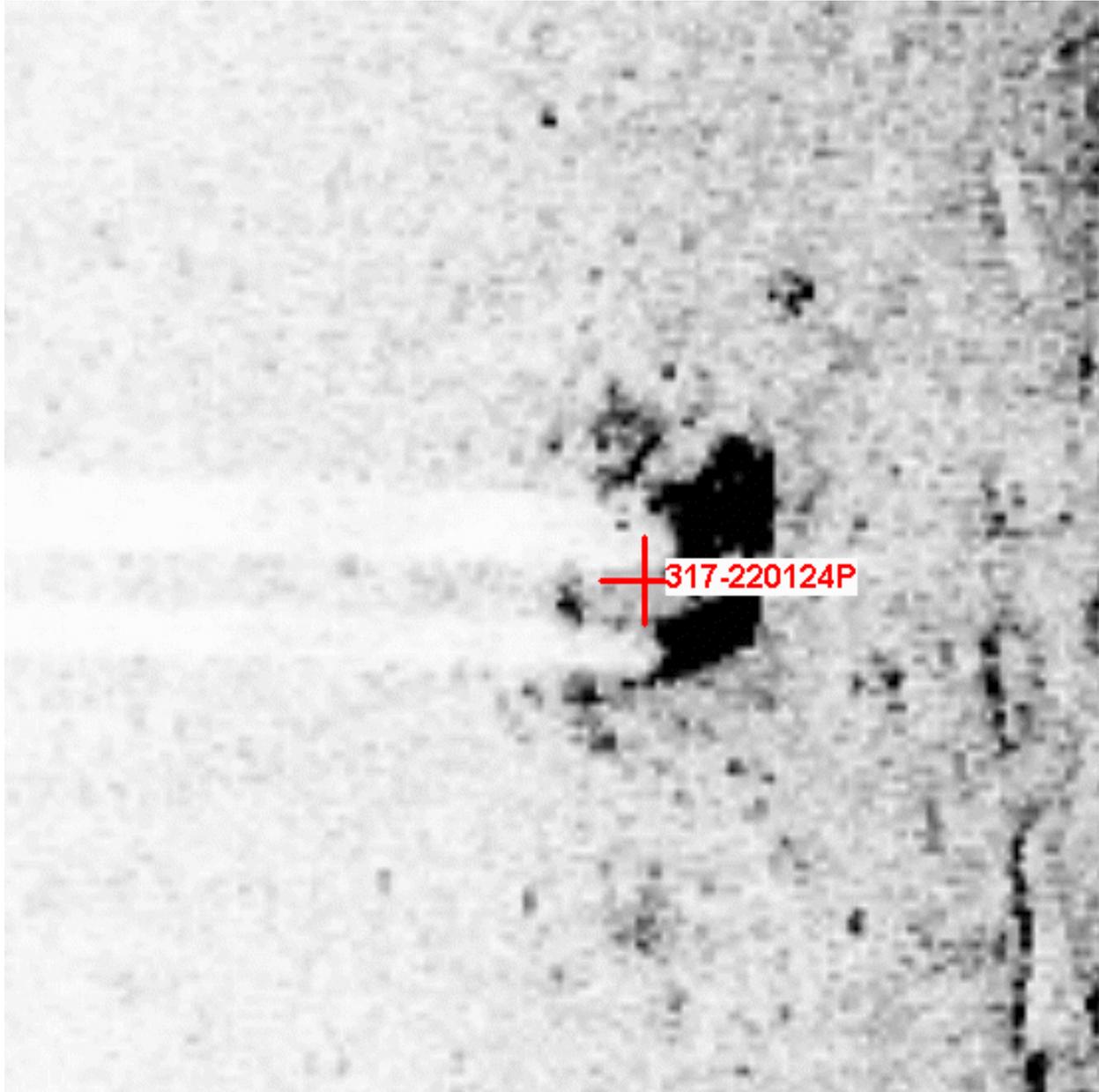
**Geo object 1:** Offshore platform (OFSPLF)  
**Attributes:** CATOFP - 2:production platform  
 NINFOM - verified  
 OBJNAM - SS 114 U  
 SORDAT - 20100408  
 SORIND - US,US,graph,H12069

### Office Notes

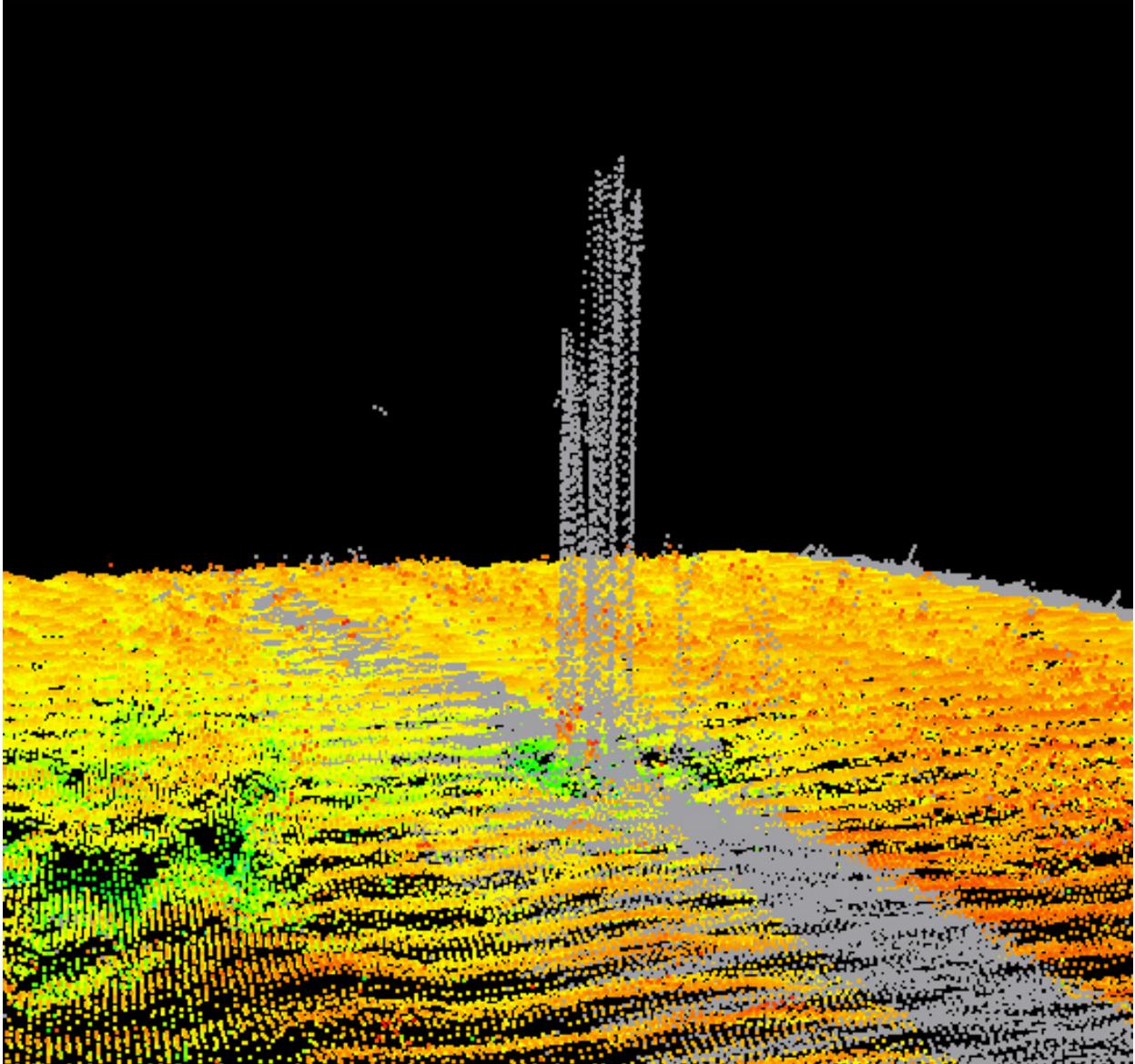
AHB SAR: Charted feature located at survey position by 200% SSS and concurrent MBES.

AHB Compile: Concur. Add OFSPLF at survey position.

## Feature Images



*Figure 1.18.1*



*Figure 1.18.2*

## 1.19) Charted OFSPLF - disproval

### Survey Summary

**Survey Position:** 28° 49' 57.0" N, 090° 50' 28.7" W  
**Least Depth:** [None]  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 1981-001.00:00:00.000 (01/01/1981)  
**GP Dataset:** AHB\_H12069 / SAR / SAR AHB HOB Files / H12069\_Charted.000  
**GP No.:** 02260006FF870001  
**Charts Affected:** 11356\_1, 11357\_1, 1116A\_1, 11340\_1, 411\_1

#### Remarks:

AHB SAR: Not documented in DR. Feature is considered diproved by 200% SSS.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12069/SAR/SAR AHB HOB Files/H12069_Charted.000	02260006FF870001	0.00	000.0	Primary

### Hydrographer Recommendations

Hydrographer recommends to delete this charted feature.

### S-57 Data

**Geo object 1:** Cartographic symbol (\$CSYMB)  
**Attributes:** NINFOM - disproval

### Office Notes

AHB SAR: Feature is considered diproved by 200% SSS.

AHB Compile: Concur. Delete OFSPLF.

## 1.20) Charted OFSPLF - "SS 114 #58"

### Survey Summary

**Survey Position:** 28° 49' 35.8" N, 090° 50' 27.4" W  
**Least Depth:** [None]  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 2010-098.00:00:00.000 (04/08/2010)  
**GP Dataset:** AHB\_H12069 / SAR / SAR AHB HOB Files / H12069\_Charted.000  
**GP No.:** 0226000681270001  
**Charts Affected:** 11356\_1, 11357\_1, 1116A\_1, 11340\_1, 411\_1

#### Remarks:

AHB SAR: Not documented in DR. Charted feature located by 200% SSS.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12069/SAR/SAR AHB HOB Files/H12069_Charted.000	0226000681270001	0.00	000.0	Primary

### Hydrographer Recommendations

Hydrographer recommends to update the position of this charted feature.

### S-57 Data

**Geo object 1:** Offshore platform (OFSPLF)  
**Attributes:** CATOFP - 2:production platform  
 NINFOM - verified  
 OBJNAM - SS 114 #58  
 SORDAT - 20100408  
 SORIND - US,US,graph,H12069

### Office Notes

AHB SAR: Charted feature located at survey position by 200% SSS.

AHB Compile: Concur. Add OFSPLF at survey position.

## Feature Images



*Figure 1.20.1*

## 1.21) Charted OFSPLF - "SS 114 #12"

### Survey Summary

**Survey Position:** 28° 50' 05.3" N, 090° 50' 24.8" W  
**Least Depth:** [None]  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 2010-098.00:00:00.000 (04/08/2010)  
**GP Dataset:** AHB\_H12069 / SAR / SAR AHB HOB Files / H12069\_Charted.000  
**GP No.:** 02260006FF8F0001  
**Charts Affected:** 11356\_1, 11357\_1, 1116A\_1, 11340\_1, 411\_1

#### Remarks:

AHB SAR: Not documented in DR. Charted feature located by 200% SSS and concurrent MBES.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12069/SAR/SAR AHB HOB Files/H12069_Charted.000	02260006FF8F0001	0.00	000.0	Primary

### Hydrographer Recommendations

Hydrographer recommends to update the position of this charted feature.

### S-57 Data

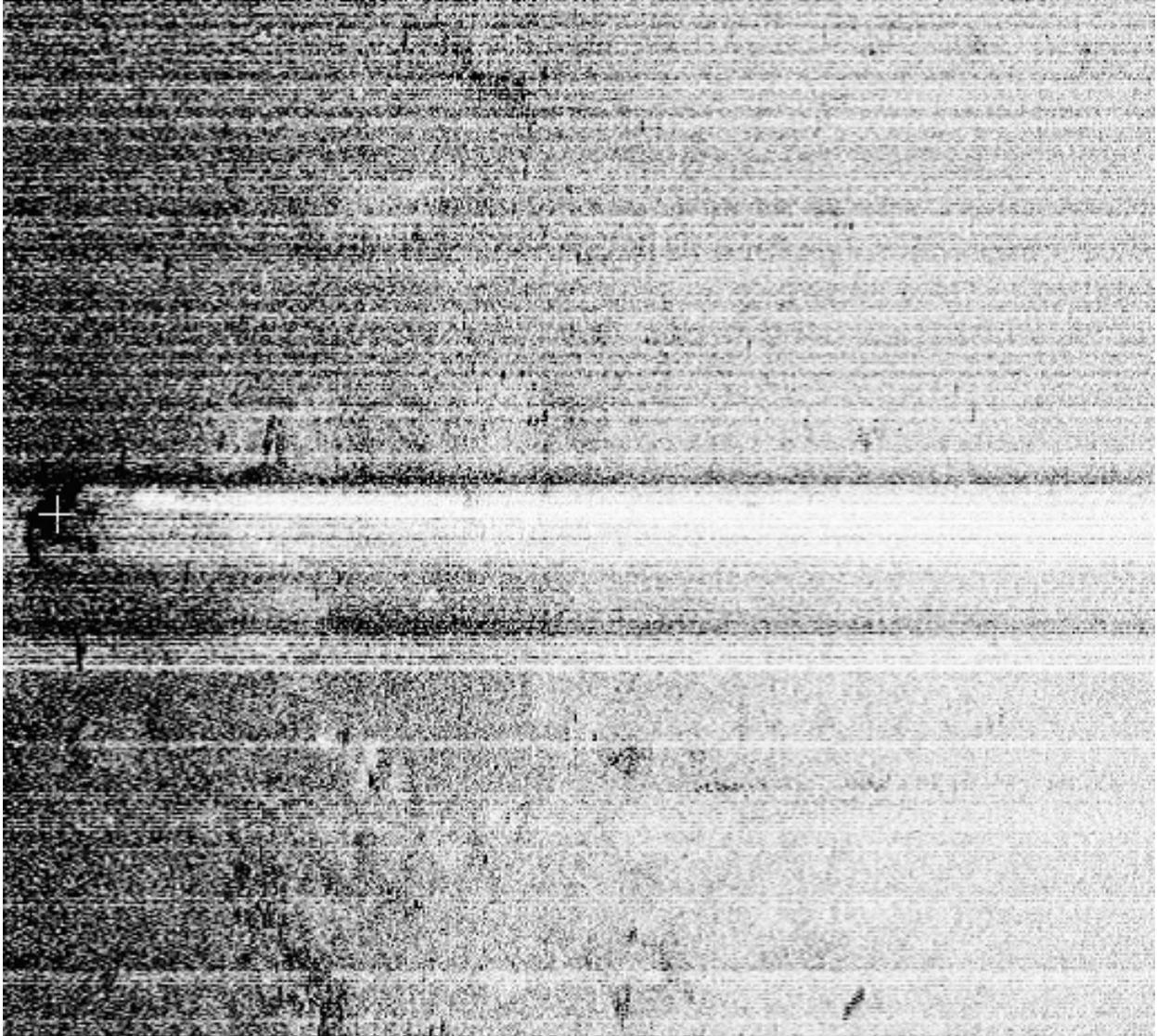
**Geo object 1:** Offshore platform (OFSPLF)  
**Attributes:** CATOFP - 2:production platform  
 NINFOM - verified  
 OBJNAM - SS 114 #12  
 SORDAT - 20100408  
 SORIND - US,US,graph,H12069

### Office Notes

AHB SAR: Charted feature located at survey position by 200% SSS and concurrent MBES.

AHB Compile: Concur. Add OFSPLF at survey position.

## Feature Images



*Figure 1.21.1*

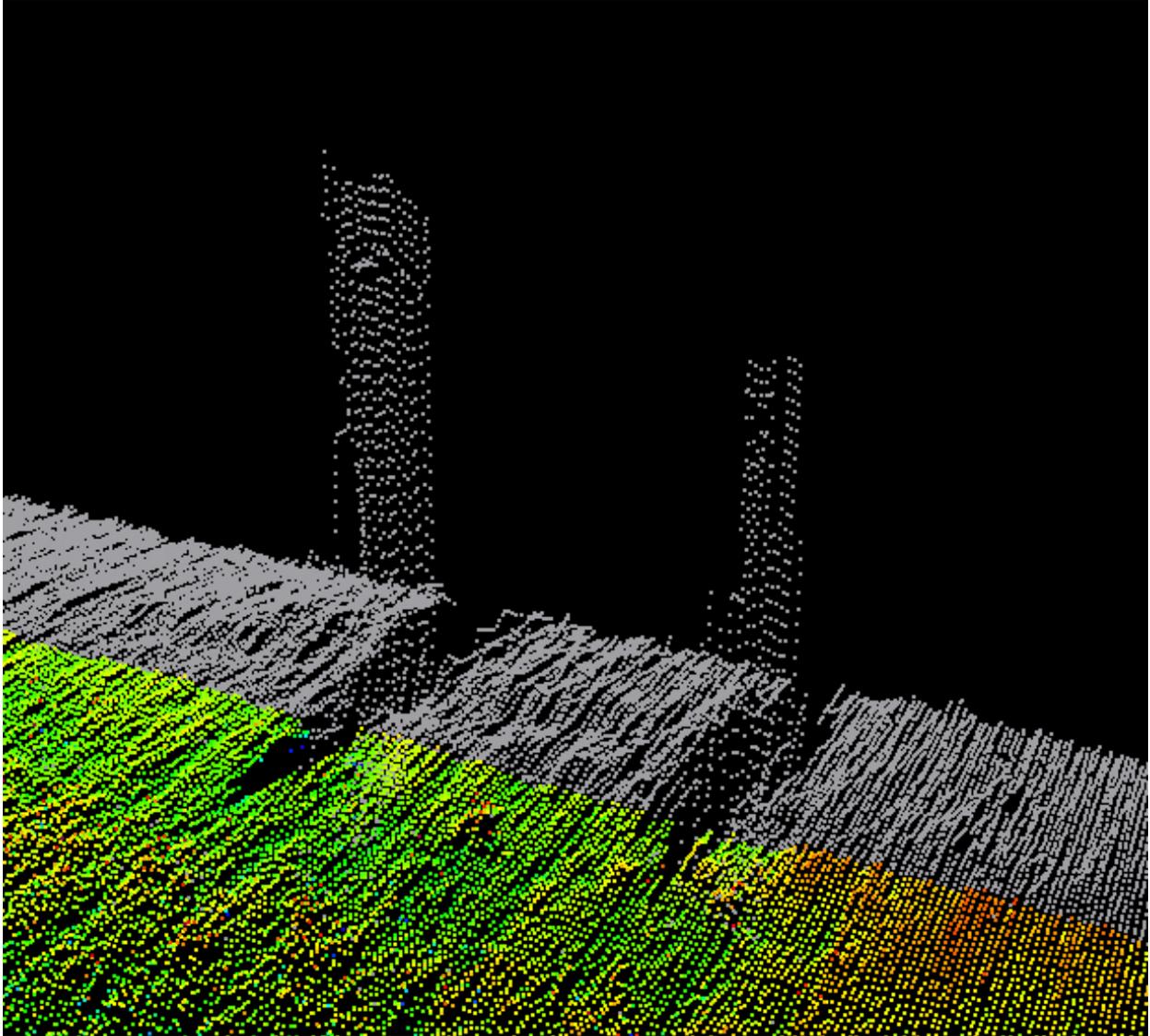


Figure 1.21.2

## 1.22) Charted OFSPLF - "SS 117 #4"

### Survey Summary

**Survey Position:** 28° 49' 28.8" N, 090° 50' 22.2" W  
**Least Depth:** [None]  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 2010-098.00:00:00.000 (04/08/2010)  
**GP Dataset:** AHB\_H12069 / SAR / SAR AHB HOB Files / H12069\_Charted.000  
**GP No.:** 0226000681330001  
**Charts Affected:** 11356\_1, 11357\_1, 1116A\_1, 11340\_1, 411\_1

#### Remarks:

AHB SAR: Not documented in DR. Charted feature located by 200% SSS.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12069/SAR/SAR AHB HOB Files/H12069_Charted.000	0226000681330001	0.00	000.0	Primary

### Hydrographer Recommendations

Hydrographer recommends to update the position of this charted feature.

### S-57 Data

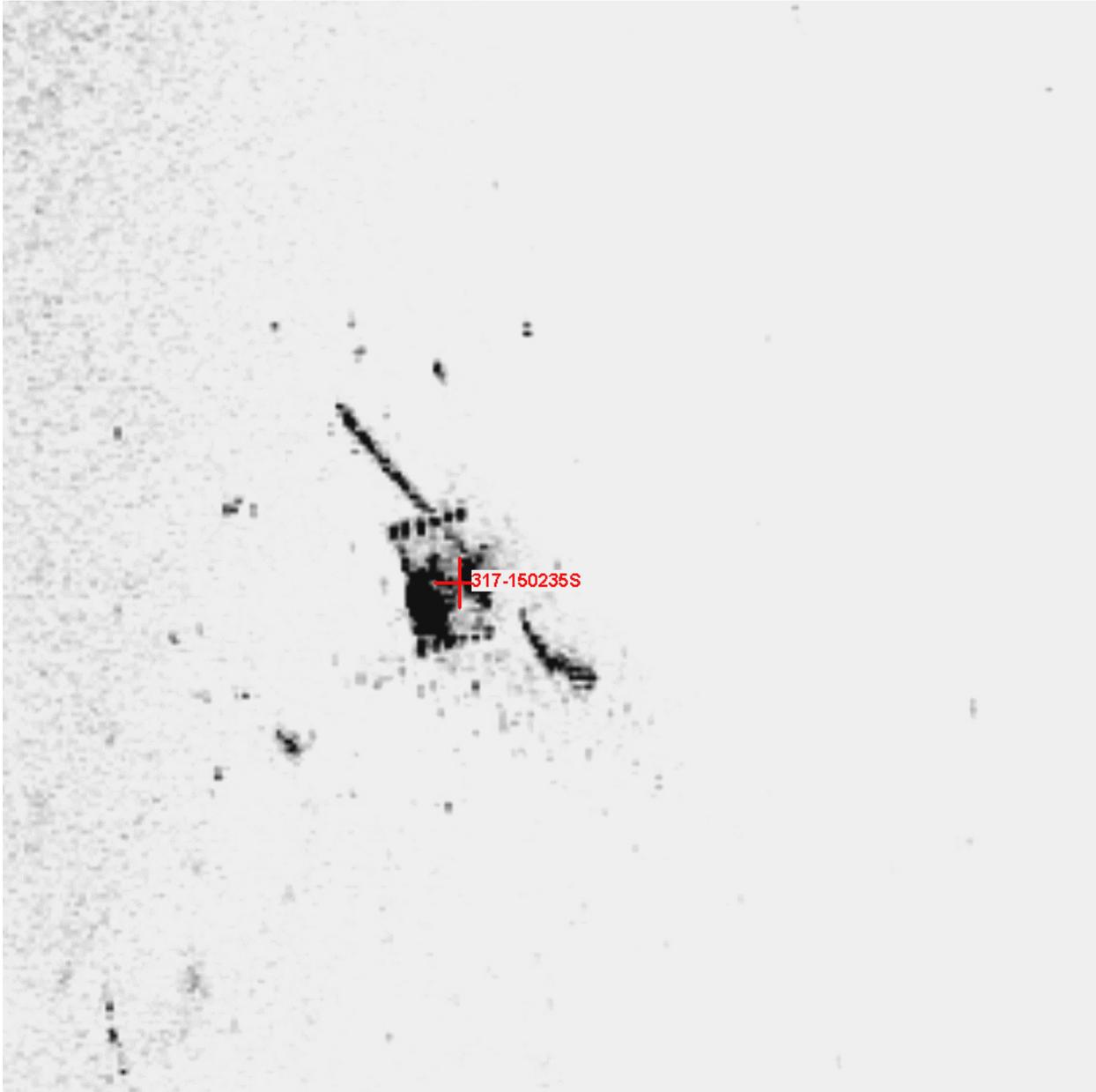
**Geo object 1:** Offshore platform (OFSPLF)  
**Attributes:** CATOFP - 2:production platform  
 NINFOM - verified  
 OBJNAM - SS 117 #4  
 SORDAT - 20100408  
 SORIND - US,US,graph,H12069

### Office Notes

AHB SAR: Charted feature located at survey position by 200% SSS.

AHB Compile: Concur. Add OFSPLF at survey position.

## Feature Images



*Figure 1.22.1*

## 1.23) Charted OFSPLF - "SS 114 #51"

### Survey Summary

**Survey Position:** 28° 50' 26.3" N, 090° 50' 19.9" W  
**Least Depth:** [None]  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 2010-098.00:00:00.000 (04/08/2010)  
**GP Dataset:** AHB\_H12069 / SAR / SAR AHB HOB Files / H12069\_Charted.000  
**GP No.:** 0226000681350001  
**Charts Affected:** 11356\_1, 11357\_1, 1116A\_1, 11340\_1, 411\_1

#### Remarks:

AHB SAR: Not documented in DR. Charted feature located by 200% SSS.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12069/SAR/SAR AHB HOB Files/H12069_Charted.000	0226000681350001	0.00	000.0	Primary

### Hydrographer Recommendations

Hydrographer recommends to update the position of this charted feature.

### S-57 Data

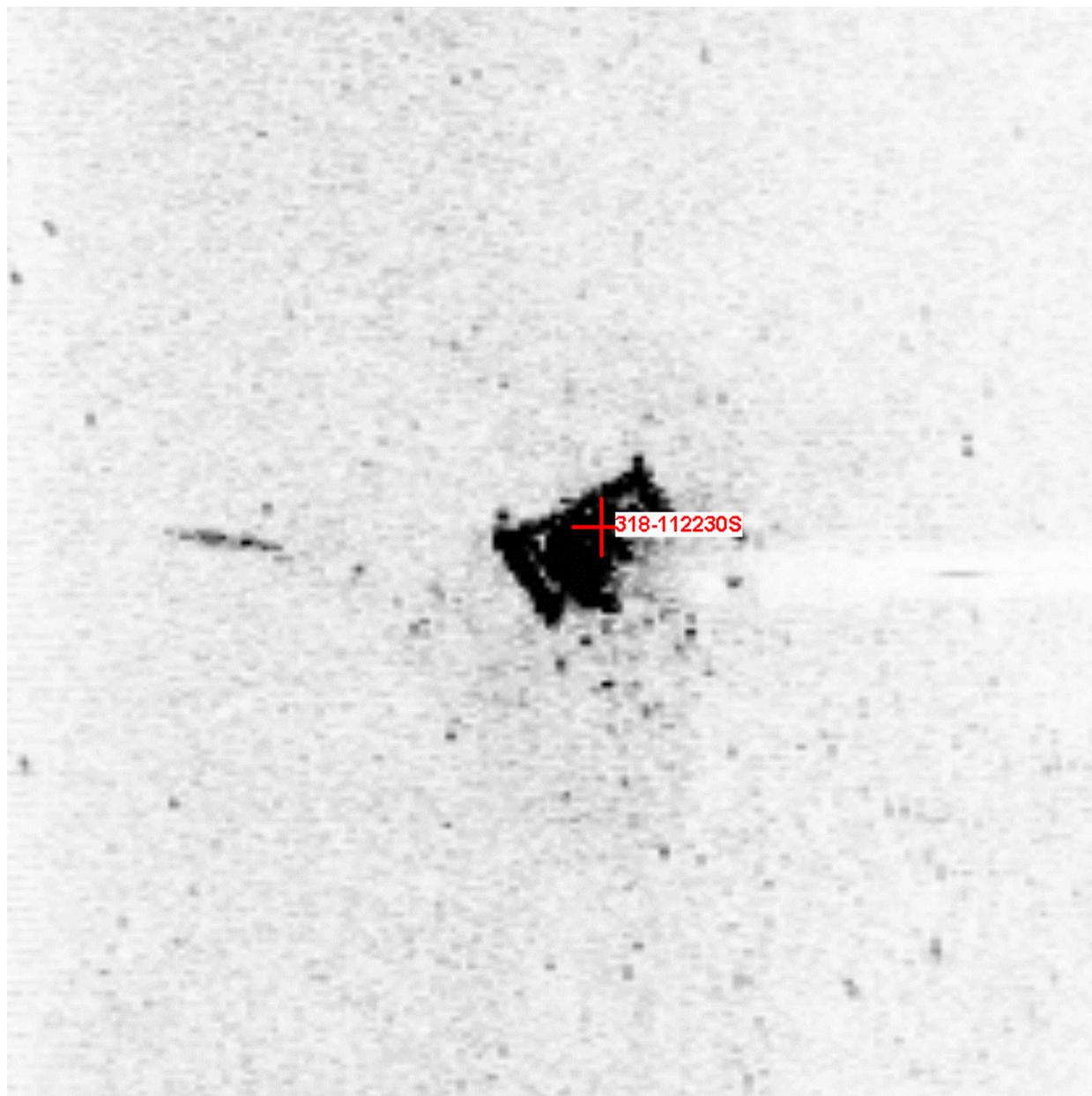
**Geo object 1:** Offshore platform (OFSPLF)  
**Attributes:** CATOFP - 2:production platform  
 NINFOM - verified  
 OBJNAM - SS 114 #51  
 SORDAT - 20100408  
 SORIND - US,US,graph,H12069

### Office Notes

AHB SAR: Charted feature located at survey position by 200% SSS.

AHB Compile: Concur. Add OFSPLF at survey position.

## Feature Images



*Figure 1.23.1*

## 1.24) Charted OFSPLF - disproval

### Survey Summary

**Survey Position:** 28° 50' 10.7" N, 090° 50' 15.3" W  
**Least Depth:** [None]  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 1981-001.00:00:00.000 (01/01/1981)  
**GP Dataset:** AHB\_H12069 / SAR / SAR AHB HOB Files / H12069\_Charted.000  
**GP No.:** 02260006FF960001  
**Charts Affected:** 11356\_1, 11357\_1, 1116A\_1, 11340\_1, 411\_1

#### Remarks:

AHB SAR: Not documented in DR. Feature is considered diproved by 200% SSS.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12069/SAR/SAR AHB HOB Files/H12069_Charted.000	02260006FF960001	0.00	000.0	Primary

### Hydrographer Recommendations

Hydrographer recommends to delete this charted feature.

### S-57 Data

**Geo object 1:** Cartographic symbol (\$CSYMB)  
**Attributes:** NINFOM - disproval

### Office Notes

AHB SAR: Feature is considered diproved by 200% SSS.

AHB Compile: Concur. Delete OFSPLF.

## 1.25) Charted OFSPLF - disproval

### Survey Summary

**Survey Position:** 28° 50' 21.8" N, 090° 50' 07.4" W  
**Least Depth:** [None]  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 1981-001.00:00:00.000 (01/01/1981)  
**GP Dataset:** AHB\_H12069 / SAR / SAR AHB HOB Files / H12069\_Charted.000  
**GP No.:** 02260006FF9C0001  
**Charts Affected:** 11356\_1, 11357\_1, 1116A\_1, 11340\_1, 411\_1

#### Remarks:

AHB SAR: Not documented in DR. Feature is considered diproved by 200% SSS.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12069/SAR/SAR AHB HOB Files/H12069_Charted.000	02260006FF9C0001	0.00	000.0	Primary

### Hydrographer Recommendations

Hydrographer recommends to delete this charted feature.

### S-57 Data

**Geo object 1:** Cartographic symbol (\$CSYMB)  
**Attributes:** NINFOM - disproval

### Office Notes

AHB SAR: Feature is considered diproved by 200% SSS.

AHB Compile: Concur. Delete OFSPLF.

## 1.26) Charted OFSPLF - disproval

### Survey Summary

**Survey Position:** 28° 50' 38.0" N, 090° 50' 00.9" W  
**Least Depth:** [None]  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 1981-001.00:00:00.000 (01/01/1981)  
**GP Dataset:** AHB\_H12069 / SAR / SAR AHB HOB Files / H12069\_Charted.000  
**GP No.:** 02260006FFA00001  
**Charts Affected:** 11356\_1, 11357\_1, 1116A\_1, 11340\_1, 411\_1

#### Remarks:

AHB SAR: Not documented in DR. Feature is considered diproved by 200% SSS.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12069/SAR/SAR AHB HOB Files/H12069_Charted.000	02260006FFA00001	0.00	000.0	Primary

### Hydrographer Recommendations

Hydrographer recommends to delete this charted feature.

### S-57 Data

**Geo object 1:** Cartographic symbol (\$CSYMB)  
**Attributes:** NINFOM - disproval

### Office Notes

AHB SAR: Feature is considered diproved by 200% SSS.

AHB Compile: Concur. Delete OFSPLF.

## 1.27) Charted OFSPLF - disproval

### Survey Summary

**Survey Position:** 28° 51' 33.8" N, 090° 50' 00.7" W  
**Least Depth:** [None]  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 1981-001.00:00:00.000 (01/01/1981)  
**GP Dataset:** AHB\_H12069 / SAR / SAR AHB HOB Files / H12069\_Charted.000  
**GP No.:** 02260006FFA60001  
**Charts Affected:** 11356\_1, 11357\_1, 1116A\_1, 11340\_1, 411\_1

#### Remarks:

AHB SAR: Not documented in DR. Feature is considered diproved by 200% SSS.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12069/SAR/SAR AHB HOB Files/H12069_Charted.000	02260006FFA60001	0.00	000.0	Primary

### Hydrographer Recommendations

Hydrographer recommends to delete this charted feature.

### S-57 Data

**Geo object 1:** Cartographic symbol (\$CSYMB)  
**Attributes:** NINFOM - disproval

### Office Notes

AHB SAR: Feature is considered diproved by 200% SSS.

AHB Compile: Concur. Delete OFSPLF.

## 1.28) Charted OFSPLF - disproval

### Survey Summary

**Survey Position:** 28° 49' 37.7" N, 090° 50' 00.4" W  
**Least Depth:** [None]  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 1981-001.00:00:00.000 (01/01/1981)  
**GP Dataset:** AHB\_H12069 / SAR / SAR AHB HOB Files / H12069\_Charted.000  
**GP No.:** 02260006FFAC0001  
**Charts Affected:** 11356\_1, 11357\_1, 1116A\_1, 11340\_1, 411\_1

#### Remarks:

AHB SAR: Not documented in DR. Feature is considered diproved by 200% SSS.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12069/SAR/SAR AHB HOB Files/H12069_Charted.000	02260006FFAC0001	0.00	000.0	Primary

### Hydrographer Recommendations

Hydrographer recommends to delete this charted feature.

### S-57 Data

**Geo object 1:** Cartographic symbol (\$CSYMB)  
**Attributes:** NINFOM - disproval

### Office Notes

AHB SAR: Feature is considered diproved by 200% SSS.

AHB Compile: Concur. Delete OFSPLF.

## 1.29) Charted OFSPLF - disproval

### Survey Summary

**Survey Position:** 28° 50' 29.9" N, 090° 50' 00.4" W  
**Least Depth:** [None]  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 1981-001.00:00:00.000 (01/01/1981)  
**GP Dataset:** AHB\_H12069 / SAR / SAR AHB HOB Files / H12069\_Charted.000  
**GP No.:** 02260006FF9D0001  
**Charts Affected:** 11356\_1, 11357\_1, 1116A\_1, 11340\_1, 411\_1

#### Remarks:

AHB SAR: Not documented in DR. Feature is considered diproved by 200% SSS.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12069/SAR/SAR AHB HOB Files/H12069_Charted.000	02260006FF9D0001	0.00	000.0	Primary

### Hydrographer Recommendations

Hydrographer recommends to delete this charted feature.

### S-57 Data

**Geo object 1:** Cartographic symbol (\$CSYMB)  
**Attributes:** NINFOM - disproval

### Office Notes

AHB SAR: Feature is considered diproved by 200% SSS.

AHB Compile: Concur. Delete OFSPLF.

## 1.30) Charted OFSPLF - "SS 114 A"

### Survey Summary

**Survey Position:** 28° 49' 59.8" N, 090° 49' 54.9" W  
**Least Depth:** [None]  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 2010-098.00:00:00.000 (04/08/2010)  
**GP Dataset:** AHB\_H12069 / SAR / SAR AHB HOB Files / H12069\_Charted.000  
**GP No.:** 0226000681300001  
**Charts Affected:** 11357\_1, 1116A\_1, 11340\_1, 411\_1

#### Remarks:

AHB SAR: Not documented in DR. Charted feature located by 200% SSS and concurrent MBES.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12069/SAR/SAR AHB HOB Files/H12069_Charted.000	0226000681300001	0.00	000.0	Primary

### Hydrographer Recommendations

Hydrographer recommends to update the position of this charted feature.

### S-57 Data

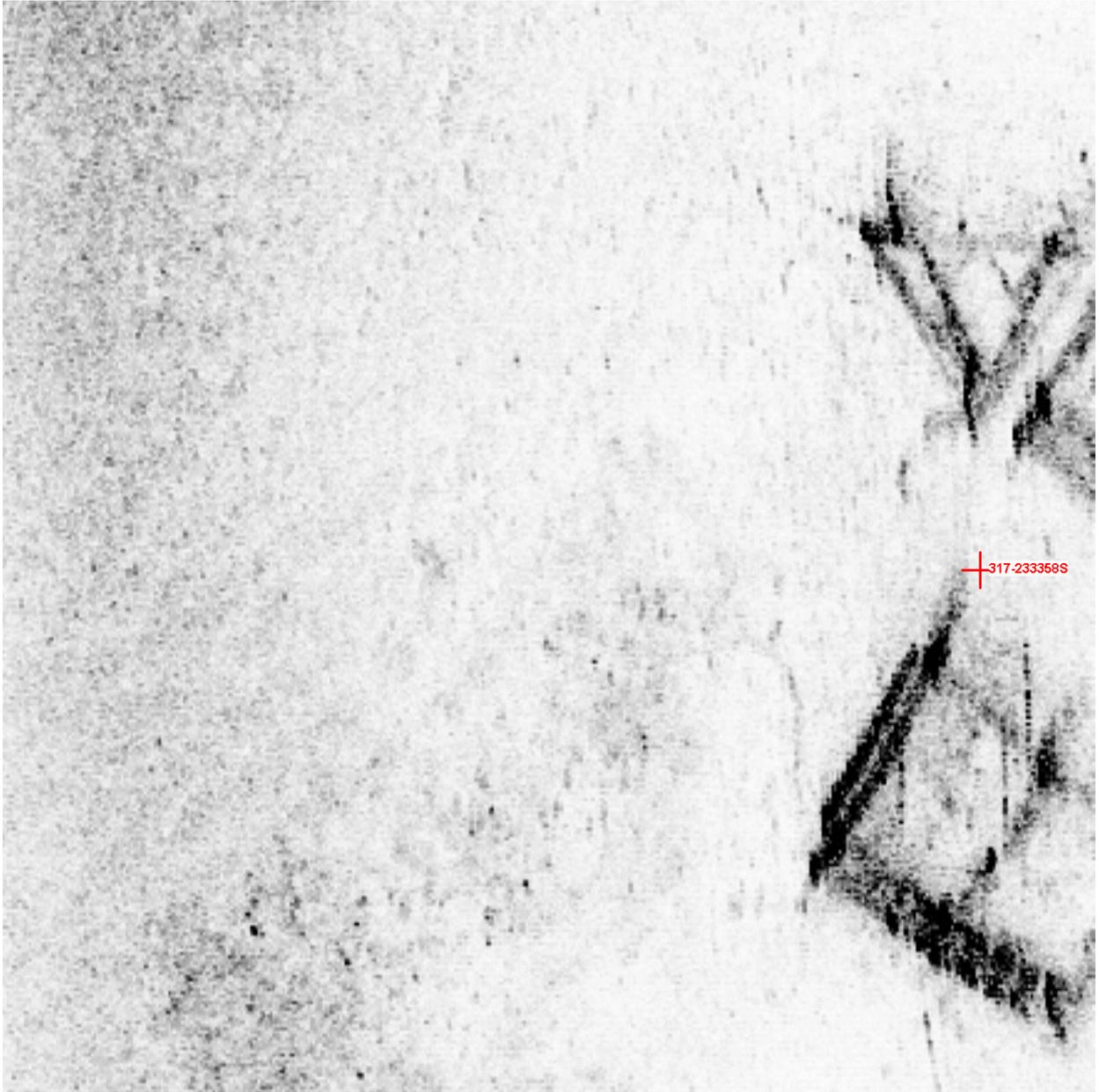
**Geo object 1:** Offshore platform (OFSPLF)  
**Attributes:** CATOFP - 2:production platform  
 NINFOM - verified  
 OBJNAM - SS 114 A  
 SORDAT - 20100408  
 SORIND - US,US,graph,H12069

### Office Notes

AHB SAR: Charted feature located at survey position by 200% SSS and concurrent MBES.

AHB Compile: Concur. Add OFSPLF at survey position.

## Feature Images



*Figure 1.30.1*

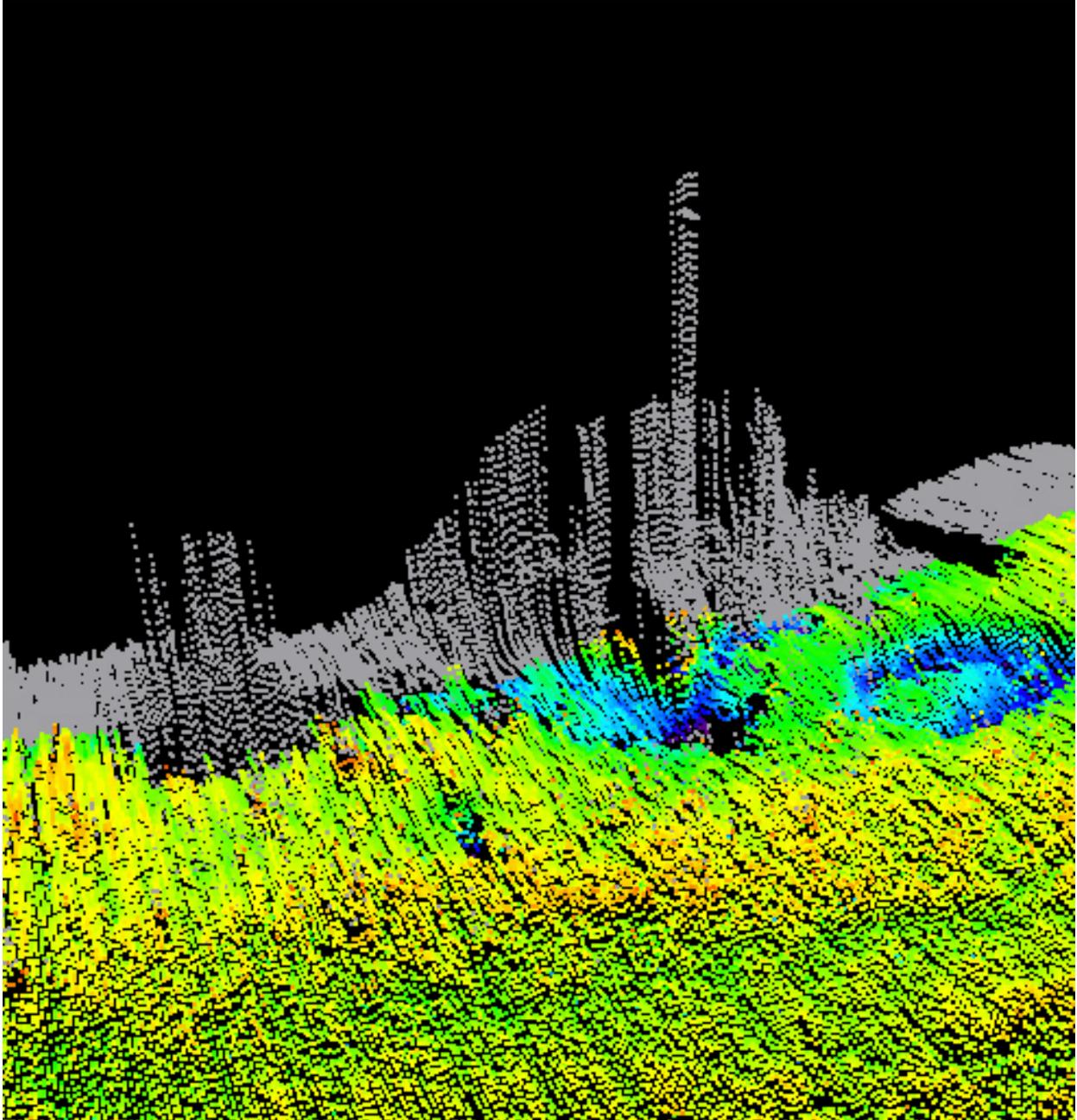


Figure 1.30.2

## 1.31) Charted OFSPLF - disproval

### Survey Summary

**Survey Position:** 28° 51' 42.1" N, 090° 49' 51.3" W  
**Least Depth:** [None]  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 1981-001.00:00:00.000 (01/01/1981)  
**GP Dataset:** AHB\_H12069 / SAR / SAR AHB HOB Files / H12069\_Charted.000  
**GP No.:** 02260006FFA30001  
**Charts Affected:** 11357\_1, 1116A\_1, 11340\_1, 411\_1

#### Remarks:

AHB SAR: Not documented in DR. Feature is considered diproved by 200% SSS.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12069/SAR/SAR AHB HOB Files/H12069_Charted.000	02260006FFA30001	0.00	000.0	Primary

### Hydrographer Recommendations

Hydrographer recommends to delete this charted feature.

### S-57 Data

**Geo object 1:** Cartographic symbol (\$CSYMB)  
**Attributes:** NINFOM - disproval

### Office Notes

AHB SAR: Feature is considered diproved by 200% SSS.

AHB Compile: Concur. Delete OFSPLF.

## 1.32) Charted OFSPLF - disproval

### Survey Summary

**Survey Position:** 28° 51' 40.5" N, 090° 49' 35.3" W  
**Least Depth:** [None]  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 1981-001.00:00:00.000 (01/01/1981)  
**GP Dataset:** AHB\_H12069 / SAR / SAR AHB HOB Files / H12069\_Charted.000  
**GP No.:** 02260006FFA90001  
**Charts Affected:** 11357\_1, 1116A\_1, 11340\_1, 411\_1

#### Remarks:

AHB SAR: Not documented in DR. Feature is considered diproved by 200% SSS.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12069/SAR/SAR AHB HOB Files/H12069_Charted.000	02260006FFA90001	0.00	000.0	Primary

### Hydrographer Recommendations

Hydrographer recommends to delete this charted feature.

### S-57 Data

**Geo object 1:** Cartographic symbol (\$CSYMB)  
**Attributes:** NINFOM - disproval

### Office Notes

AHB SAR: Feature is considered diproved by 200% SSS.

AHB Compile: Concur. Delete OFSPLF.

### 1.33) Charted OFSPLF - "SS 138 I"

#### Survey Summary

**Survey Position:** 28° 45' 25.2" N, 090° 47' 59.7" W  
**Least Depth:** [None]  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 2010-098.00:00:00.000 (04/08/2010)  
**GP Dataset:** AHB\_H12069 / SAR / SAR AHB HOB Files / H12069\_Charted.000  
**GP No.:** 0226000681250001  
**Charts Affected:** 11357\_1, 1116A\_1, 11340\_1, 411\_1

#### Remarks:

AHB SAR: Not documented in DR. Charted feature located by 200% SSS and concurrent MBES.

#### Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12069/SAR/SAR AHB HOB Files/H12069_Charted.000	0226000681250001	0.00	000.0	Primary

#### Hydrographer Recommendations

Hydrographer recommends to update the position of this charted feature.

#### S-57 Data

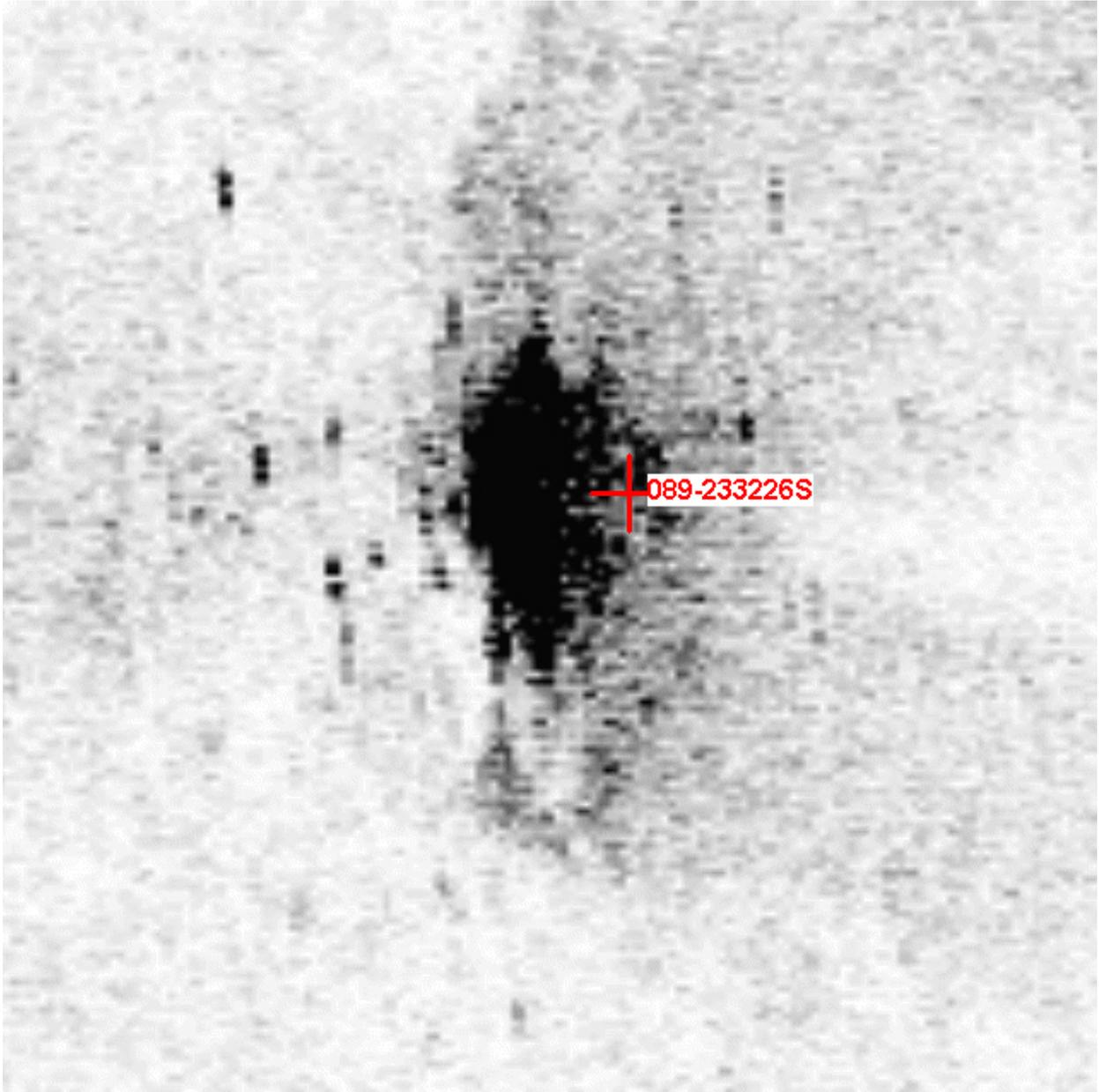
**Geo object 1:** Offshore platform (OFSPLF)  
**Attributes:** CATOFP - 2:production platform  
 NINFOM - verified  
 OBJNAM - SS 138 I  
 SORDAT - 20100408  
 SORIND - US,US,graph,H12069

#### Office Notes

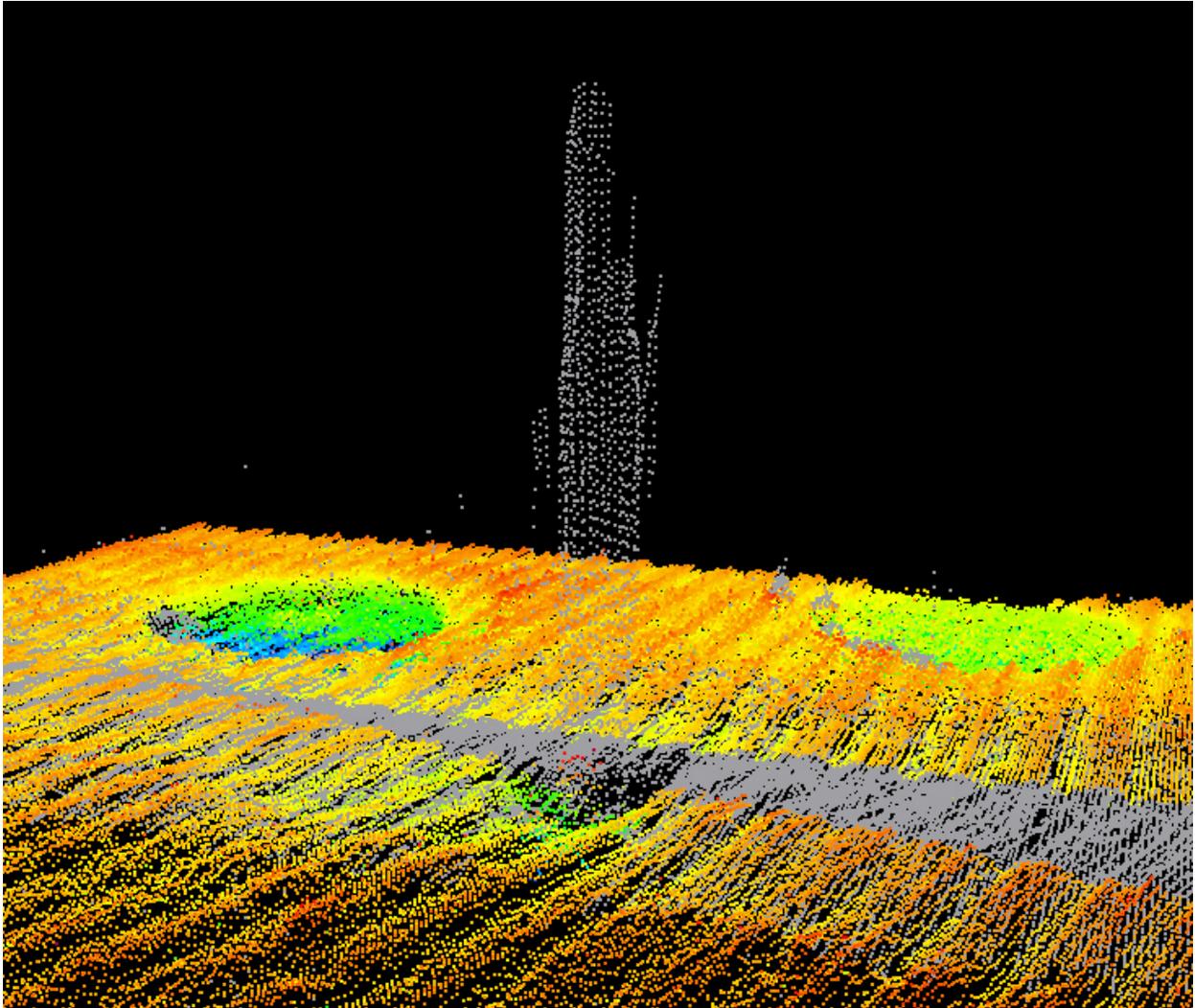
AHB SAR: Charted feature located at survey position by 200% SSS and concurrent MBES.

AHB Compile: Concur. Add OFSPLF at survey position.

## Feature Images



*Figure 1.33.1*



*Figure 1.33.2*

## 1.34) Charted OFSPLF - disproval

### Survey Summary

**Survey Position:** 28° 52' 08.6" N, 090° 47' 43.1" W  
**Least Depth:** [None]  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 1981-001.00:00:00.000 (01/01/1981)  
**GP Dataset:** AHB\_H12069 / SAR / SAR AHB HOB Files / H12069\_Charted.000  
**GP No.:** 02260006FF850001  
**Charts Affected:** 11357\_1, 1116A\_1, 11340\_1, 411\_1

#### Remarks:

AHB SAR: Not documented in DR. Feature is considered diproved by 200% SSS.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12069/SAR/SAR AHB HOB Files/H12069_Charted.000	02260006FF850001	0.00	000.0	Primary

### Hydrographer Recommendations

Hydrographer recommends to delete this charted feature.

### S-57 Data

**Geo object 1:** Cartographic symbol (\$CSYMB)  
**Attributes:** NINFOM - disproval

### Office Notes

AHB SAR: Feature is considered diproved by 200% SSS.

AHB Compile: Concur. Delete OFSPLF.

## 1.35) Charted OFSPLF - disproval

### Survey Summary

**Survey Position:** 28° 46' 19.9" N, 090° 46' 05.9" W  
**Least Depth:** [None]  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 1981-001.00:00:00.000 (01/01/1981)  
**GP Dataset:** AHB\_H12069 / SAR / SAR AHB HOB Files / H12069\_Charted.000  
**GP No.:** 02260006FF820001  
**Charts Affected:** 11357\_1, 1116A\_1, 11340\_1, 411\_1

#### Remarks:

AHB SAR: Not documented in DR. Feature is considered diproved by 200% SSS.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12069/SAR/SAR AHB HOB Files/H12069_Charted.000	02260006FF820001	0.00	000.0	Primary

### Hydrographer Recommendations

Hydrographer recommends to delete this charted feature.

### S-57 Data

**Geo object 1:** Cartographic symbol (\$CSYMB)  
**Attributes:** NINFOM - disproval

### Office Notes

AHB SAR: Feature is considered diproved by 200% SSS.

AHB Compile: Concur. Delete OFSPLF.

## 1.36) Charted OBSTRN (Well cov 50ft) - disproval

### Survey Summary

**Survey Position:** 28° 45' 44.8" N, 090° 46' 03.0" W  
**Least Depth:** [None]  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 1981-001.00:00:00.000 (01/01/1981)  
**GP Dataset:** AHB\_H12069 / SAR / SAR AHB HOB Files / H12069\_Charted.000  
**GP No.:** 02260006FFC70001  
**Charts Affected:** 11357\_1, 1116A\_1, 11340\_1, 411\_1

#### Remarks:

AHB SAR: Not documented in DR. Feature is considered diproved by 200% SSS.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12069/SAR/SAR AHB HOB Files/H12069_Charted.000	02260006FFC70001	0.00	000.0	Primary

### Hydrographer Recommendations

Hydrographer recommends to delete this charted feature.

### S-57 Data

**Geo object 1:** Cartographic symbol (\$CSYMB)  
**Attributes:** NINFOM - disproval

### Office Notes

AHB SAR: Feature is considered diproved by 200% SSS.

AHB Compile: Concur. Delete OBSTRN.

## 1.37) Charted OFSPLF - "SS 139"

### Survey Summary

**Survey Position:** 28° 47' 05.7" N, 090° 46' 01.5" W  
**Least Depth:** [None]  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 2010-098.00:00:00.000 (04/08/2010)  
**GP Dataset:** AHB\_H12069 / SAR / SAR AHB HOB Files / H12069\_Charted.000  
**GP No.:** 0226000681240001  
**Charts Affected:** 11357\_1, 1116A\_1, 11340\_1, 411\_1

#### Remarks:

AHB SAR: Not documented in DR. Charted feature located by 200% SSS.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12069/SAR/SAR AHB HOB Files/H12069_Charted.000	0226000681240001	0.00	000.0	Primary

### Hydrographer Recommendations

Hydrographer recommends to update the position of this charted feature.

### S-57 Data

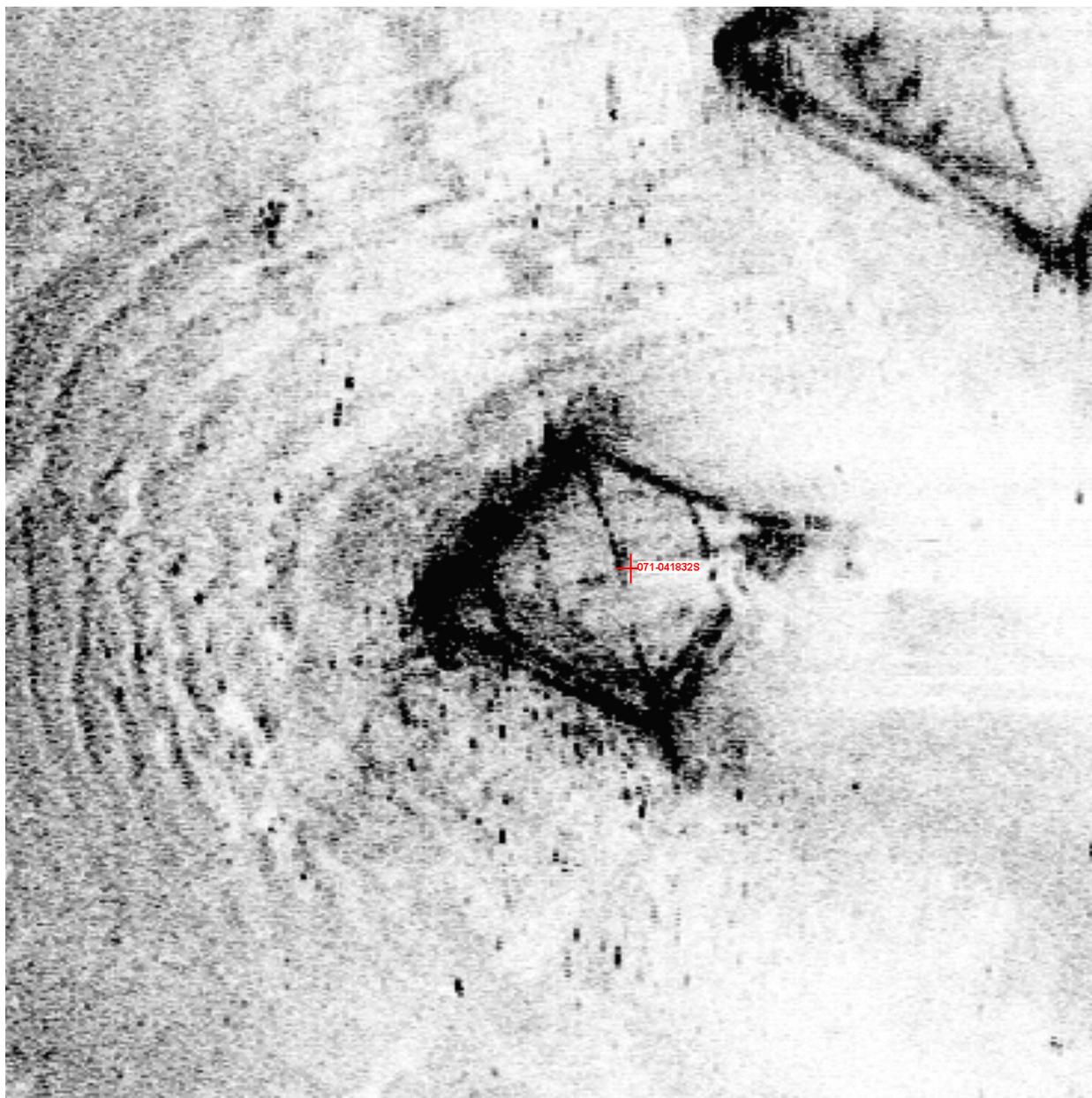
**Geo object 1:** Offshore platform (OFSPLF)  
**Attributes:** CATOFP - 2:production platform  
 NINFOM - verified  
 OBJNAM - SS 139  
 SORDAT - 20100408  
 SORIND - US,US,graph,H12069

### Office Notes

AHB SAR: Charted feature located at survey position by 200% SSS.

AHB Compile: Concur. Add OFSPLF at survey position.

## Feature Images



*Figure 1.37.1*

## 1.38) Charted OFSPLF - disproval

### Survey Summary

**Survey Position:** 28° 46' 22.6" N, 090° 45' 20.7" W  
**Least Depth:** [None]  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 1981-001.00:00:00.000 (01/01/1981)  
**GP Dataset:** AHB\_H12069 / SAR / SAR AHB HOB Files / H12069\_Charted.000  
**GP No.:** 02260006FF7F0001  
**Charts Affected:** 11357\_1, 1116A\_1, 11340\_1, 411\_1

#### Remarks:

AHB SAR: Not documented in DR. Feature is considered diproved by 200% SSS.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12069/SAR/SAR AHB HOB Files/H12069_Charted.000	02260006FF7F0001	0.00	000.0	Primary

### Hydrographer Recommendations

Hydrographer recommends to delete this charted feature.

### S-57 Data

**Geo object 1:** Cartographic symbol (\$CSYMB)  
**Attributes:** NINFOM - disproval

### Office Notes

AHB SAR: Feature is considered diproved by 200% SSS.

AHB Compile: Concur. Delete OFSPLF.

## 1.39) Charted OFSPLF - "ST 75 B"

### Survey Summary

**Survey Position:** 28° 46' 11.4" N, 090° 44' 27.7" W  
**Least Depth:** [None]  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 2010-098.00:00:00.000 (04/08/2010)  
**GP Dataset:** AHB\_H12069 / SAR / SAR AHB HOB Files / H12069\_Charted.000  
**GP No.:** 02260006812D0001  
**Charts Affected:** 11357\_1, 1116A\_1, 11340\_1, 411\_1

#### Remarks:

AHB SAR: Not documented in DR. Charted feature located by 200% SSS.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12069/SAR/SAR AHB HOB Files/H12069_Charted.000	02260006812D0001	0.00	000.0	Primary

### Hydrographer Recommendations

Hydrographer recommends to update the position of this charted feature.

### S-57 Data

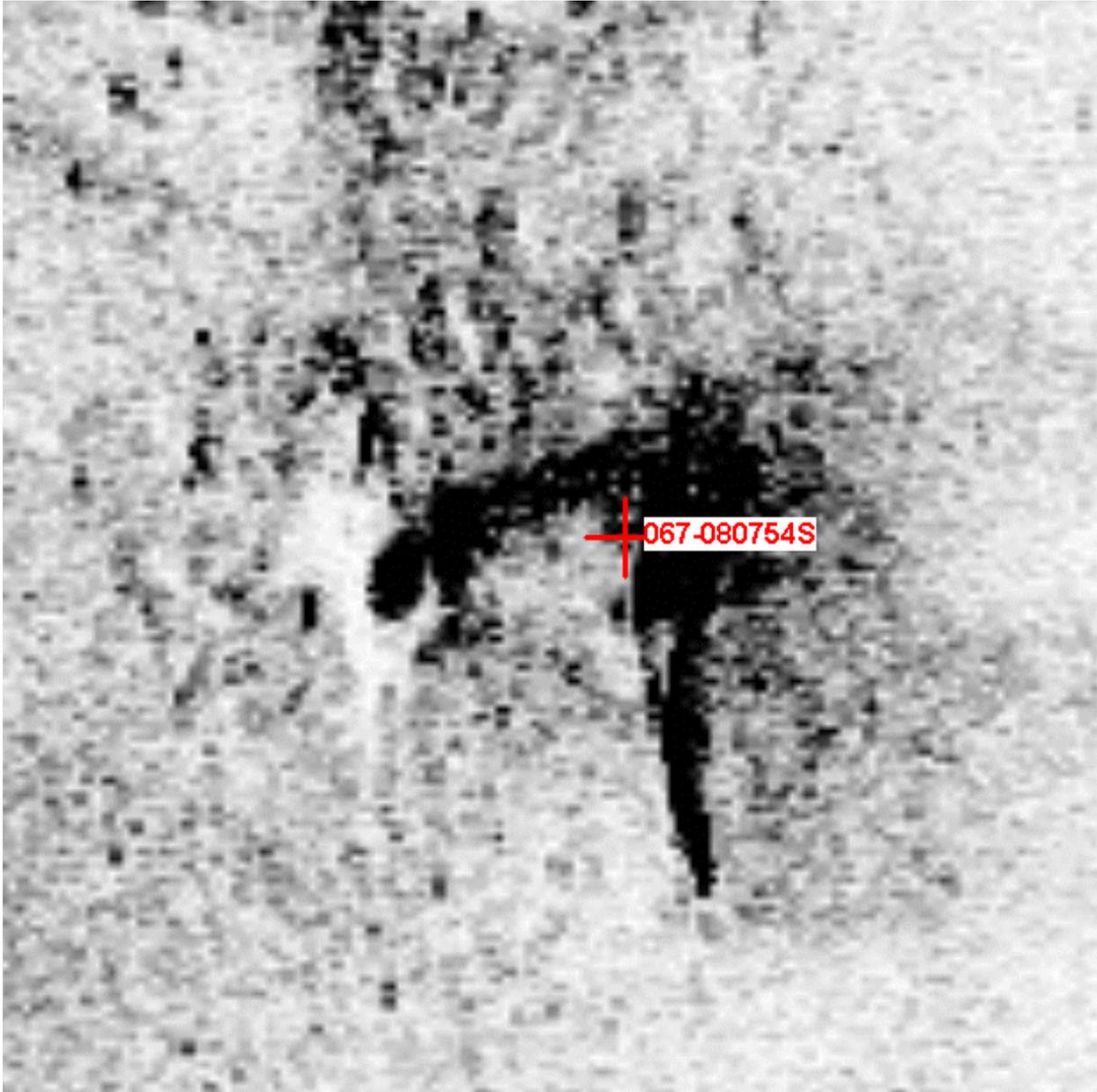
**Geo object 1:** Offshore platform (OFSPLF)  
**Attributes:** CATOFP - 2:production platform  
 NINFOM - verified  
 OBJNAM - ST 75 B  
 SORDAT - 20100408  
 SORIND - US,US,graph,H12069

### Office Notes

AHB SAR: Charted feature located at survey position by 200% SSS.

AHB Compile: Concur. Add OFSPLF at survey position.

## Feature Images



*Figure 1.39.1*

## 1.40) Charted OFSPLF - "ST 75 C"

### Survey Summary

**Survey Position:** 28° 46' 29.3" N, 090° 44' 01.4" W  
**Least Depth:** [None]  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 2010-098.00:00:00.000 (04/08/2010)  
**GP Dataset:** AHB\_H12069 / SAR / SAR AHB HOB Files / H12069\_Charted.000  
**GP No.:** 02260006812A0001  
**Charts Affected:** 11357\_1, 1116A\_1, 11340\_1, 411\_1

#### Remarks:

AHB SAR: Not documented in DR. Charted feature located by 200% SSS and concurrent MBES.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12069/SAR/SAR AHB HOB Files/H12069_Charted.000	02260006812A0001	0.00	000.0	Primary

### Hydrographer Recommendations

Hydrographer recommends to update the position of this charted feature.

### S-57 Data

**Geo object 1:** Offshore platform (OFSPLF)  
**Attributes:** CATOFP - 2:production platform  
 NINFOM - verified  
 OBJNAM - ST 75 C  
 SORDAT - 20100408  
 SORIND - US,US,graph,H12069

### Office Notes

AHB SAR: Charted feature located at survey position by 200% SSS and concurrent MBES.

AHB Compile: Concur. Add OFSPLF at survey position.

### Feature Images

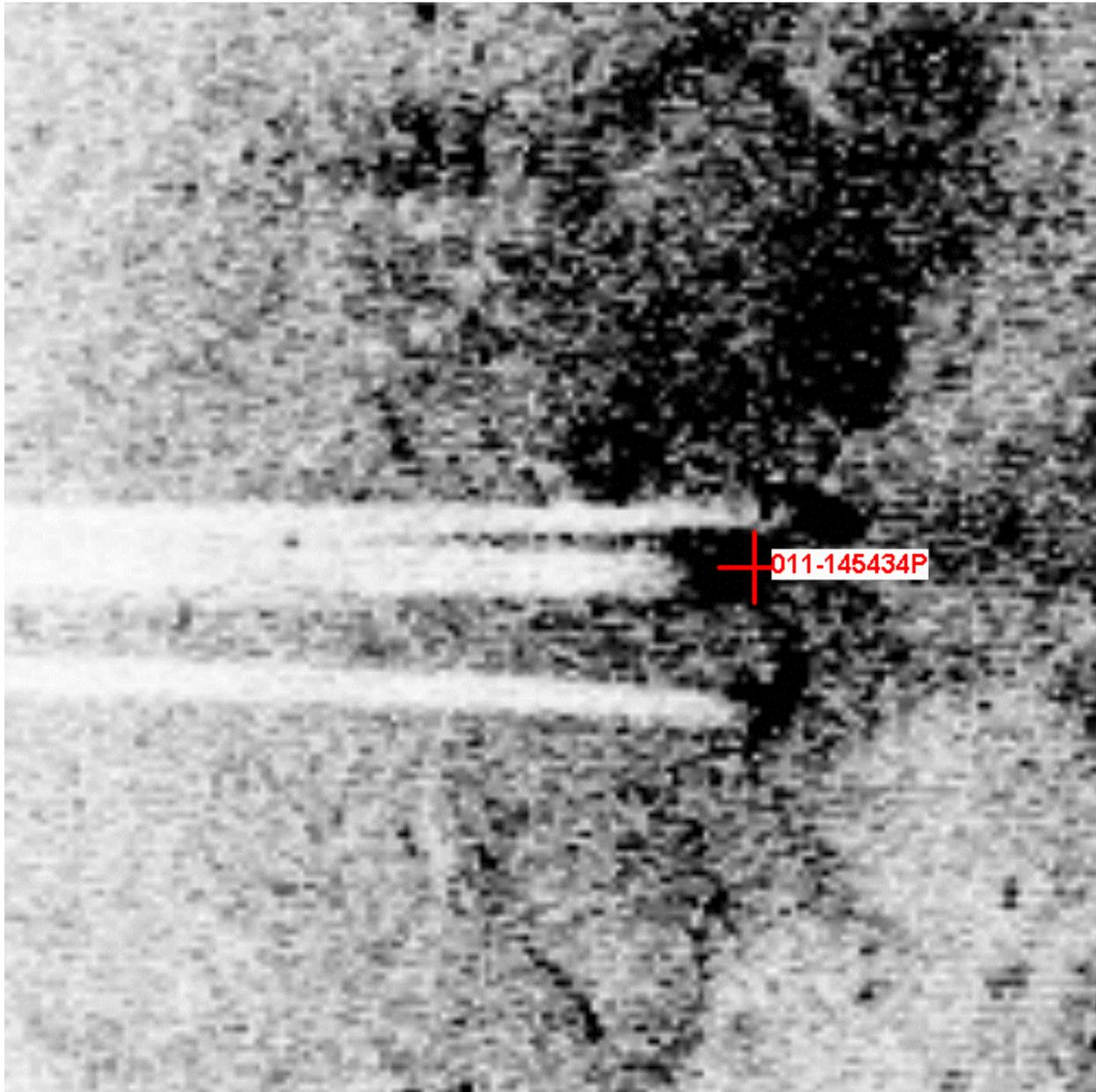


Figure 1.40.1

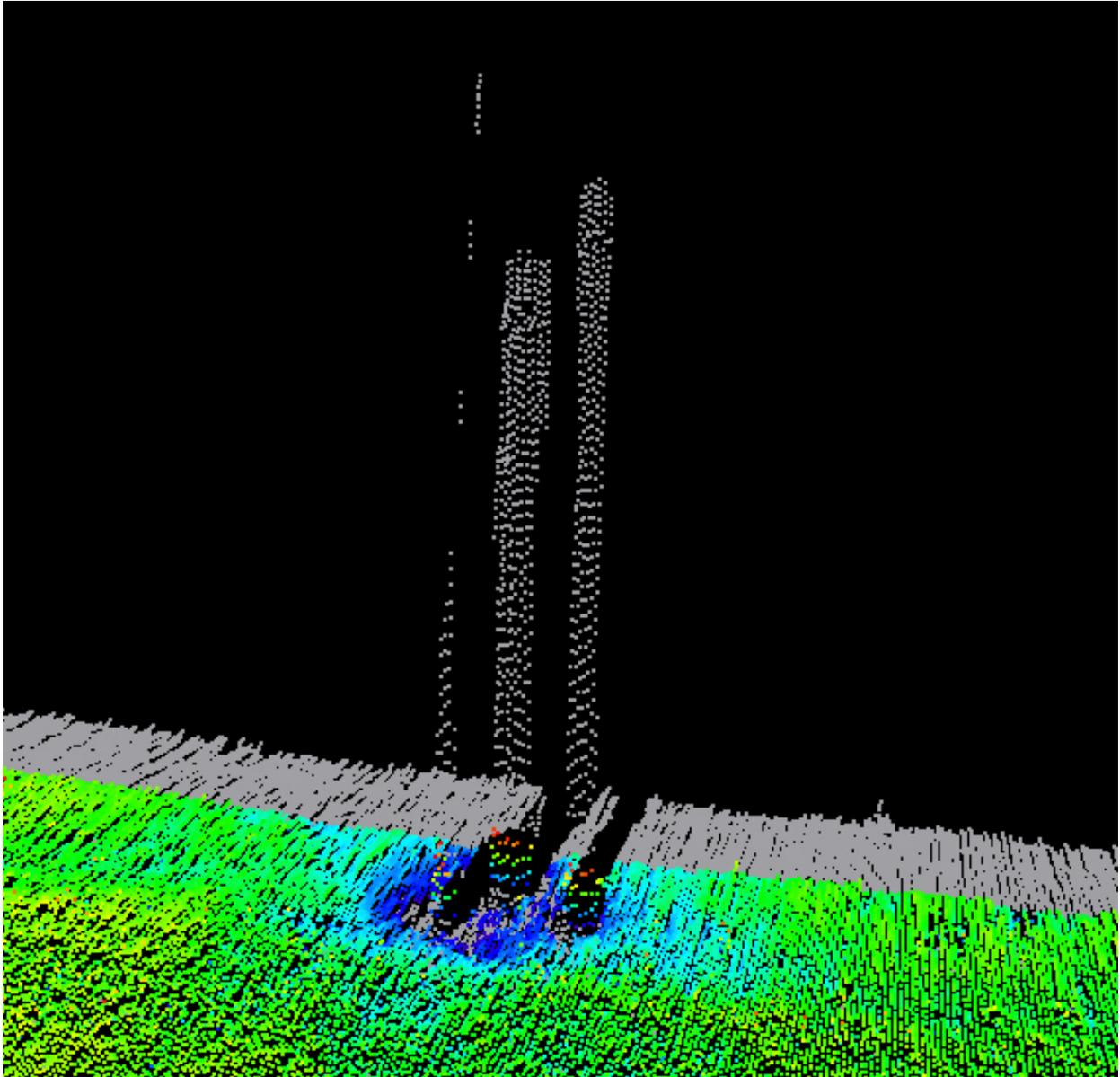


Figure 1.40.2

## 1.41) Charted OFSPLF - "SP 21 #1"

### Survey Summary

**Survey Position:** 28° 51' 07.1" N, 090° 42' 50.7" W  
**Least Depth:** [None]  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 2010-098.00:00:00.000 (04/08/2010)  
**GP Dataset:** AHB\_H12069 / SAR / SAR AHB HOB Files / H12069\_Charted.000  
**GP No.:** 02260006812B0001  
**Charts Affected:** 11357\_1, 1116A\_1, 11340\_1, 411\_1

#### Remarks:

AHB SAR: Not documented in DR. Charted feature located by 200% SSS.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12069/SAR/SAR AHB HOB Files/H12069_Charted.000	02260006812B0001	0.00	000.0	Primary

### Hydrographer Recommendations

Hydrographer recommends to update the position of this charted feature.

### S-57 Data

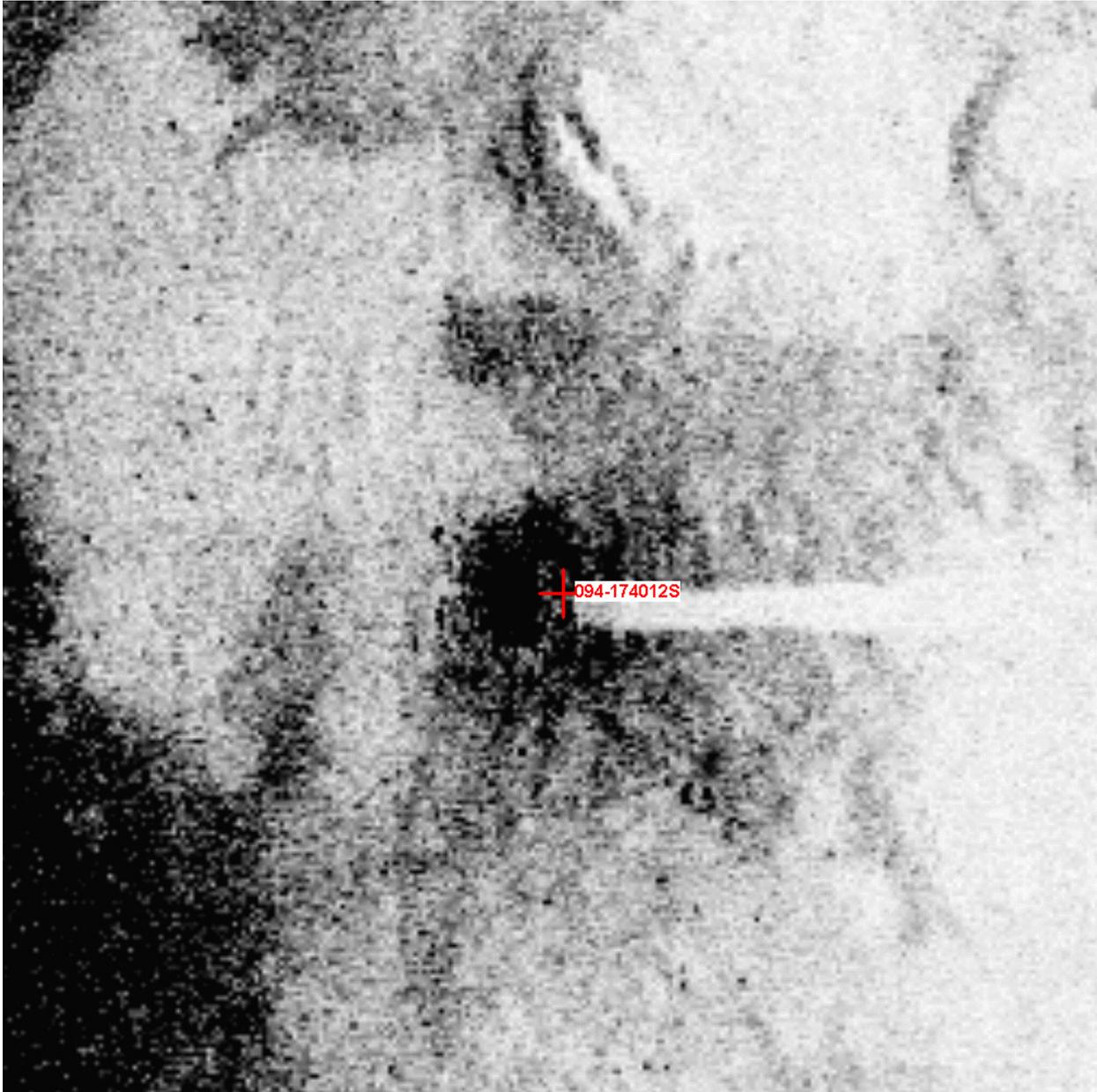
**Geo object 1:** Offshore platform (OFSPLF)  
**Attributes:** CATOFP - 2:production platform  
 NINFOM - verified  
 OBJNAM - SP 21 #1  
 SORDAT - 20100408  
 SORIND - US,US,graph,H12069

### Office Notes

AHB SAR: Charted feature located at survey position by 200% SSS.

AHB Compile: Concur. Add OFSPLF at survey position.

## Feature Images



*Figure 1.41.1*

## 1.42) Charted OFSPLF - "PL 22 B"

### Survey Summary

**Survey Position:** 28° 50' 41.9" N, 090° 41' 38.5" W  
**Least Depth:** [None]  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 2010-098.00:00:00.000 (04/08/2010)  
**GP Dataset:** AHB\_H12069 / SAR / SAR AHB HOB Files / H12069\_Charted.000  
**GP No.:** 02260006812F0001  
**Charts Affected:** 11357\_1, 1116A\_1, 11340\_1, 411\_1

#### Remarks:

AHB SAR: Not documented in DR. Charted feature located by 200% SSS.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12069/SAR/SAR AHB HOB Files/H12069_Charted.000	02260006812F0001	0.00	000.0	Primary

### Hydrographer Recommendations

Hydrographer recommends to update the position of this charted feature.

### S-57 Data

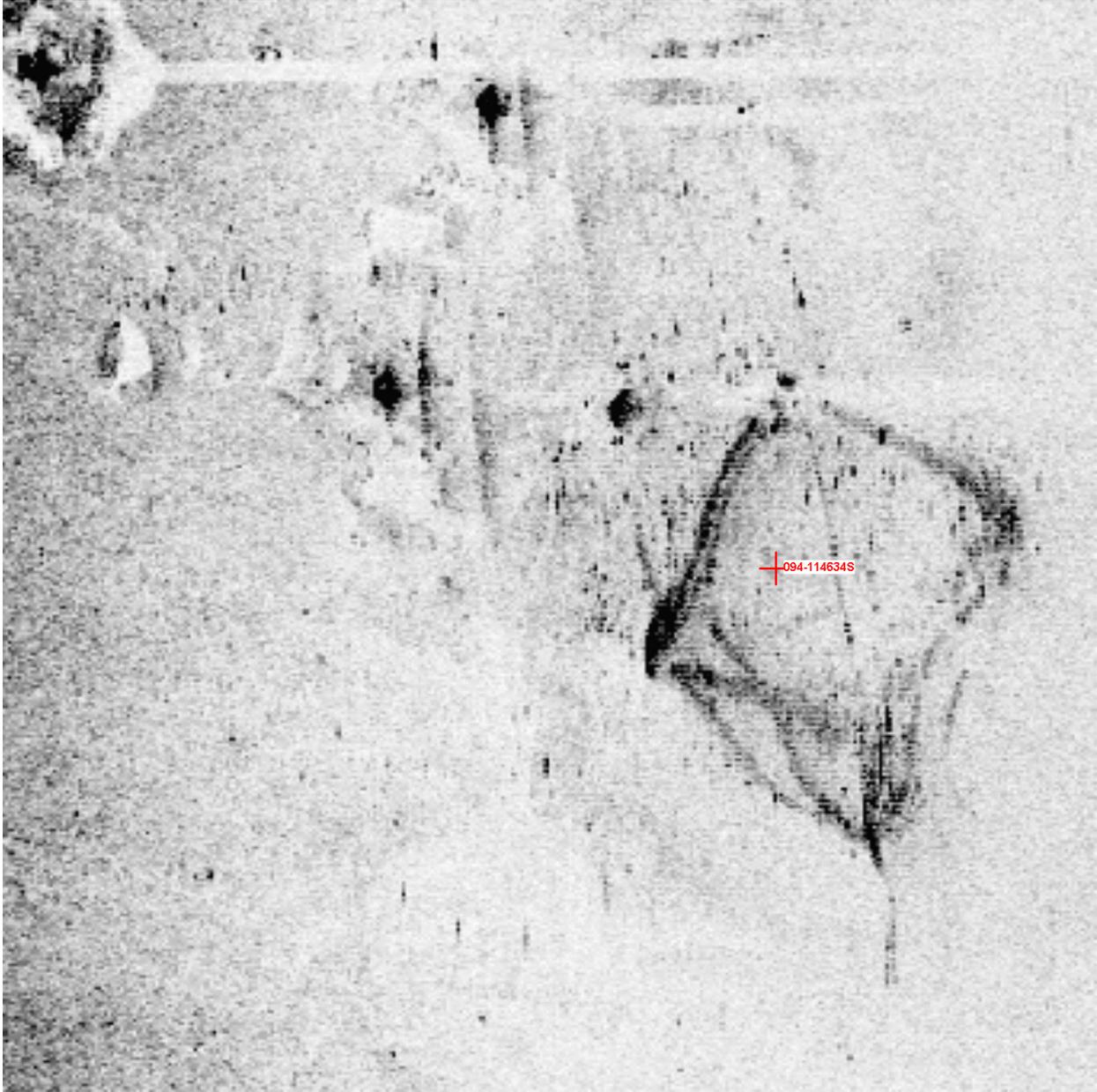
**Geo object 1:** Offshore platform (OFSPLF)  
**Attributes:** CATOFP - 2:production platform  
 NINFOM - verified  
 OBJNAM - PL 22 B  
 SORDAT - 20100408  
 SORIND - US,US,graph,H12069

### Office Notes

AHB SAR: Charted feature located at survey position by 200% SSS.

AHB Compile: Concur. Add OFSPLF at survey position.

## Feature Images



*Figure 1.42.1*

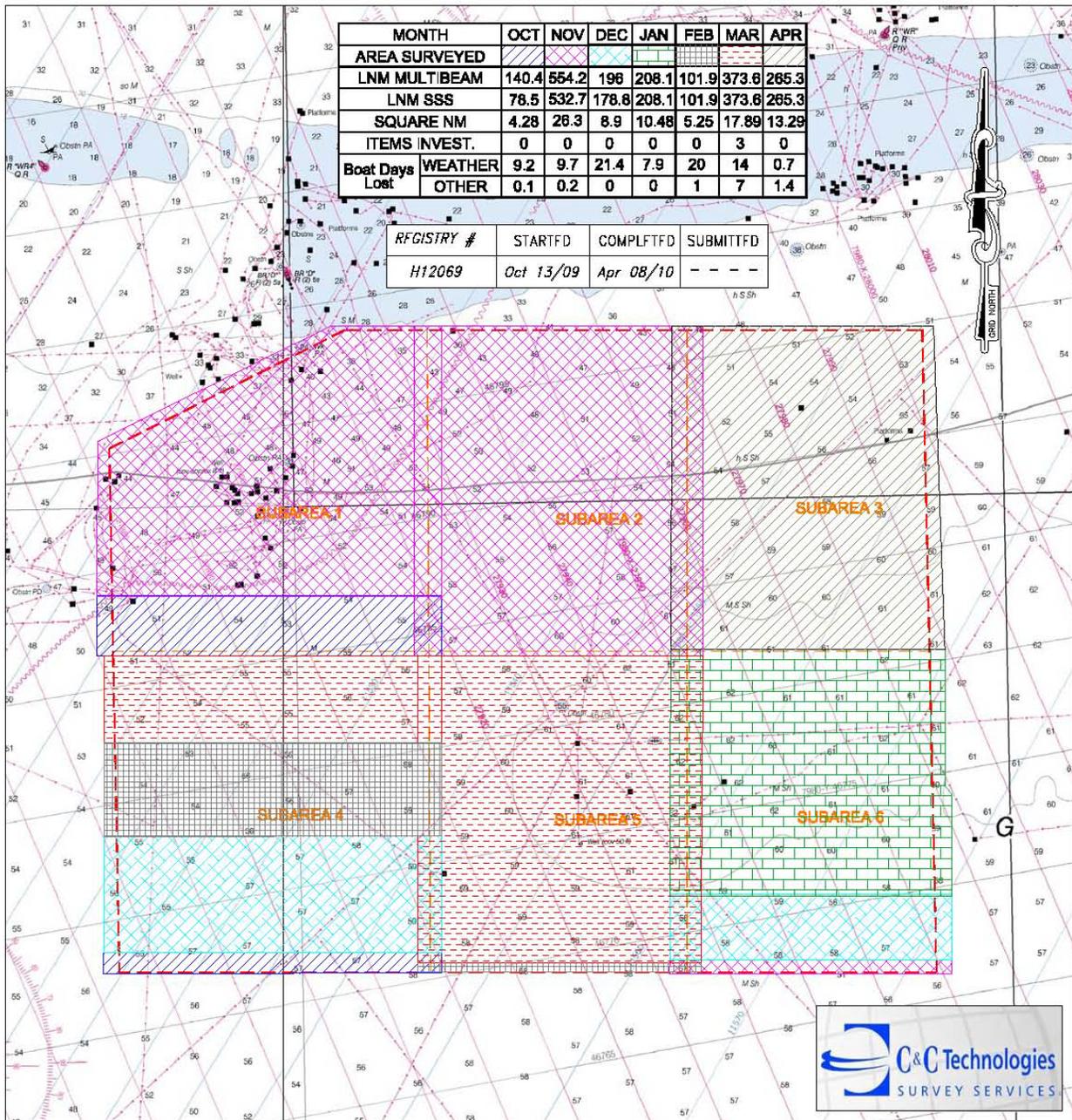


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## **APPENDIX III**

### **FINAL PROGRESS SKETCH AND SURVEY OUTLINE**

# OPR-K354-KR-09 H12069 Progress Sketch (Sheet H)





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**APPENDIX IV**

**TIDES AND WATER LEVELS**

The tidal data applied to all multibeam echo sounder data was downloaded from the following website:

[http://tidesandcurrents.noaa.gov/station\\_retrieve.shtml?type=Historic%20Tide%20Data&state=Louisiana&id1=876](http://tidesandcurrents.noaa.gov/station_retrieve.shtml?type=Historic%20Tide%20Data&state=Louisiana&id1=876)

#### ABSTRACT OF TIMES OF HYDROGRAPHY

Project: OPR-K354-KR-09

Contractor Name: C & C Technologies, Inc.  
 Inclusive Dates: **October 13th, 2009 - April 8th, 2010**  
 Registry No.: H12069 (Sheet H)  
 Date: April 2010  
 Sheet Letter: H  
 Field Work is Complete  
 Time (UTC)

Date	Julian Day	Start	End	Year
10/13/2009	286	2046	2400	2009
10/14/2009	287	0000	2400	2009
10/15/2009	288	0000	2400	2009
10/19/2009	292	1615	2400	2009
10/20/2009	293	0000	2400	2009
10/21/2009	294	0000	0003	2009
10/24/2009	297	2345	2400	2009
10/25/2009	298	0000	2400	2009
10/26/2009	299	0000	1337	2009
11/12/2009	316	2230	2400	2009
11/13/2009	317	0000	2400	2009
11/14/2009	318	0000	2400	2009
11/15/2009	319	0000	2400	2009
11/16/2009	320	0000	2400	2009
11/17/2009	321	0000	2400	2009
11/18/2009	322	0000	2400	2009
11/19/2009	323	0000	1650	2009
11/23/2009	327	0015	2400	2009
11/24/2009	328	0000	2115	2009
11/27/2009	331	1910	2400	2009
11/28/2009	332	0000	2400	2009
11/29/2009	333	0000	2000	2009
12/20/2009	354	0630	0000	2009
12/21/2009	355	0000	2400	2009
12/22/2009	356	0000	1440	2009
1/2/2010	002	1930	2400	2010
1/3/2010	003	0000	2400	2010
1/4/2010	004	0000	2400	2010
1/5/2010	005	0000	2400	2010
1/6/2010	006	0000	2400	2010
1/7/2010	007	0000	0748	2010
1/11/2010	011	0016	2400	2010
1/12/2010	012	0000	2400	2010
1/13/2010	013	0000	2400	2010
1/14/2010	014	0000	2400	2010
1/15/2010	015	0000	0100	2010

Descriptive Report to Accompany Hydrographic Survey H12069



2/20/2010	051	2218	2400	2010
2/21/2010	052	0000	2400	2010
2/22/2010	053	0000	2113	2010
2/23/2010	054	0846	1414	2010
2/25/2010	056	0940	1548	2010
2/25/2010	056	2227	2400	2010
2/26/2010	057	0000	2400	2010
2/27/2010	058	0000	2400	2010
2/28/2010	059	0000	2400	2010
3/1/2010	060	0000	1130	2010
3/3/2010	062	2145	2400	2010
3/4/2010	063	0000	1649	2010
3/5/2010	064	1353	2400	2010
3/6/2010	065	0000	2400	2010
3/7/2010	066	0000	2400	2010
3/8/2010	067	0000	2400	2010
3/9/2010	068	0000	1113	2010
3/11/2010	070	0600	2400	2010
3/12/2010	071	0000	1946	2010
3/14/2010	073	1344	2400	2010
3/15/2010	074	0000	2400	2010
3/16/2010	075	0000	1800	2010
3/17/2010	076	1830	2400	2010
3/18/2010	077	0000	2400	2010
3/19/2010	078	0000	2400	2010
3/20/2010	079	0000	1403	2010
3/23/2010	082	0400	2400	2010
3/24/2010	083	0000	2200	2010
3/26/2010	085	0500	2400	2010
3/27/2010	086	0000	2400	2010
3/28/2010	087	0000	1730	2010
3/29/2010	088	2000	2400	2010
3/30/2010	089	0000	2400	2010
3/31/2010	090	0000	2400	2010
4/1/2010	091	0000	2400	2010
4/2/2010	092	0000	1208	2010
4/3/2010	093	0135	2400	2010
4/4/2010	094	0000	2400	2010
4/5/2010	095	0000	1334	2010
4/7/2010	097	1705	2400	2010
4/8/2010	098	0000	0057	2010



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**APPENDIX V**

**SUPPLEMENTAL SURVEY RECORDS  
AND CORRESPONDANCE**

**Subject:** [Fwd: Re: R.M Parker Ship Wreck]  
**From:** John Baker <john.baker@cctecnol.com>  
**Date:** Fri, 24 Jun 2011 15:44:05 -0500 (CDT)  
**To:** Castle.E.Parker@noaa.gov

Gene,

Here's what I got back on the R.M Parker.

John

----- Original Message -----  
Subject: Re: R.M Parker Ship Wreck  
From: "Robert Westrick" <[robert.westrick@cctecnol.com](mailto:robert.westrick@cctecnol.com)>  
Date: Fri, June 24, 2011 1:20 pm  
To: [john.baker@cctecnol.com](mailto:john.baker@cctecnol.com)  
Cc: [robert.church@cctecnol.com](mailto:robert.church@cctecnol.com)  
"Scott Croft" <[scott.croft@cctecnol.com](mailto:scott.croft@cctecnol.com)>  
"Tony George" <[tony.george@cctecnol.com](mailto:tony.george@cctecnol.com)>

John:

The location reliability of the wreck is listed as a 1 in our database which means "The Wreck's location is confirmed through physical verification and has been accurately positioned (e.g., with GPS or on an accurate modern map) or is identified on the basis of accurately positioned remote-sensing survey. The location is considered to be very reliable such that a wreck would be easy to relocate using standard DGPS equipment."

I have attached a document I put together on the wreck minus the BOEMRE coordinates. I have those coordinates if you need them for a particular job. I also have Avery Munson's contact information.

Rob

On 6/24/2011 11:00 AM, John Baker wrote:

Guys,  
  
In our database we have the wreck of the steam tanker R.M Parker at 028-44-22.998N,090-44-44.665W. We found a wreck at this location in 2009, and I was wondering, how do we know that this is the wreck of the R.M Parker? The closes position of this wreck using a google search is about 8 miles away.  
  
NOAA is curious about how we've decided that this is it.  
  
John

--

Robert F. Westrick  
Marine Archaeologist  
C&C Technologies  
730 E. Kaliste Saloom Rd.  
Lafayette, LA 70508  
(337) 261-0660 Ext. 3508  
(772) 643-8064 cell  
(337) 261-0192 fax  
Website [www.cctecnol.com](http://www.cctecnol.com)

—untitled-1.2—

John:

The location reliability of the wreck is listed as a 1 in our database which means "The Wreck's location is confirmed through physical verification and has been accurately positioned (e.g., with GPS or on an accurate modern map) or is identified on the basis of accurately

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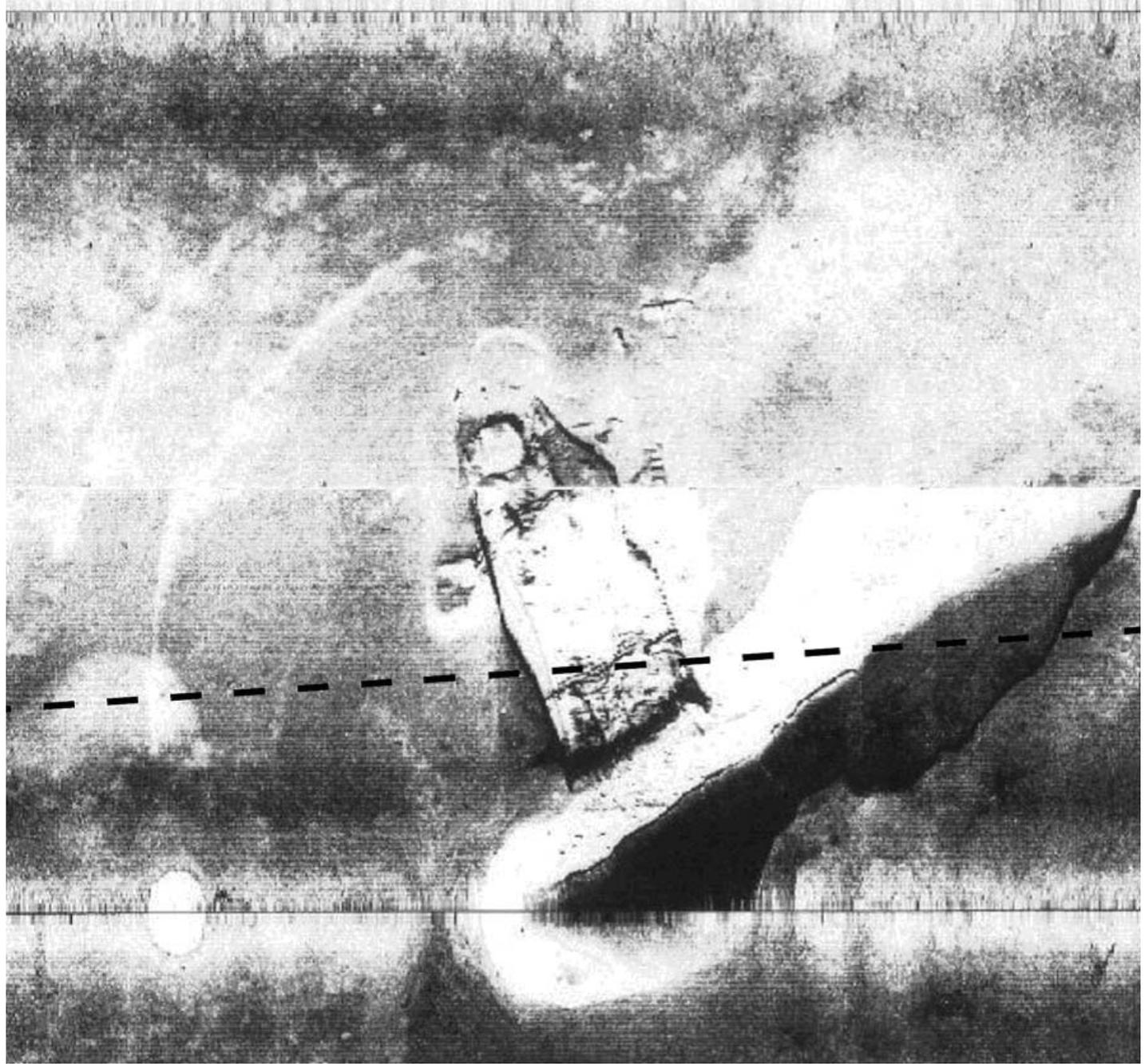
~~—Parker.jpg~~

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Wreckage, Block

South Timbalier Area

0 25  
METER



<b>untitled-1.2</b>	<b>Content-Type:</b> text/html <b>Content-Encoding:</b> 8bit
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— Parker.jpg

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<b>Parker.jpg</b>	<b>Content-Type:</b> image/jpeg <b>Content-Encoding:</b> base64
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— Parker.doc

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<b>Parker.doc</b>	<b>Content-Type:</b> application/msword <b>Content-Encoding:</b> base64
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**Subject:** Re: Fwd: H12069 DtoN#1

**From:** Bruce Terrell <Bruce.Terrell@noaa.gov>

**Date:** Mon, 27 Jun 2011 12:46:45 -0400

**To:** Gene Parker <Castle.E.Parker@noaa.gov>

**CC:** James Delgado <James.Delgado@noaa.gov>

Gene

Thank you for notifying me about this wreck. The Parker should be considered to be a historic vessel according to the criteria for eligibility for the National Register of Historic Places, which federal agencies are directed to use to assess significance for historical properties. If you could send me the site coordinates, I would like to forward them to the archaeological teams for both BOEMR and NOAA's Maritime Heritage Program.

The agencies have been working to have the shipwrecks sunk by German submarines during WWII's Battle of the Atlantic, declared a Historic Maritime Landscape. This ship certainly fits within the scope of that project and the team will be glad to have this information, I am certain.

We would be appreciative if you were able to change the attribution on the charts to "obstruction" instead of wreck.

Thanks again,  
Bruce Terrell  
Historian/Archaeologist  
NOAA/Maritime Heritage Program  
301-713-7255

On 6/27/2011 11:01 AM, Gene Parker wrote:

Good Day Bruce,  
Do you have any info on the wreck RM Parker as having historic significance which would require special charting application. We're waiting on information such that AHB would modify the feature type and application to the chart. We've been sitting on this DtoN for several days and need to respond to Marine Chart Division.

I received an email from C&C this morning and the archeologists that work for C&C; they indicate that this wreck is documented within the C&C database and they attribute the wreck as the RM Parker. I don't have a problem changing the chart application to an obstruction but need to know whether you consider this wreck as having historic and cultural significance.

Thanks for your attention to this matter.  
Regards,  
Gene Parker

On 6/24/2011 3:10 PM, [Bruce.Terrell@noaa.gov](mailto:Bruce.Terrell@noaa.gov) wrote:

Hi Gene  
I am on leave today (right, so what am I doing checking emails?) but will check on Monday and get back to you on Monday.  
Bruce

----- Original Message -----

From: Gene Parker<[Castle.E.Parker@noaa.gov](mailto:Castle.E.Parker@noaa.gov)>  
Date: Friday, June 24, 2011 12:26 pm  
Subject: Fwd: H12069 DtoN#1  
To: [pboggan@crt.state.la.us](mailto:pboggan@crt.state.la.us), [Bruce.Terrell@noaa.gov](mailto:Bruce.Terrell@noaa.gov)  
Cc: Richard T Brennan<[Richard.T.Brennan@noaa.gov](mailto:Richard.T.Brennan@noaa.gov)>, Rosemary Abbitt<[Rosemary.Abbitt@noaa.gov](mailto:Rosemary.Abbitt@noaa.gov)>, James M Crocker<[James.M.Crocker@noaa.gov](mailto:James.M.Crocker@noaa.gov)>

Good Day,  
Please reference the attached Danger to Navigation submission. It involves an uncharted wreck that a contract field unit associates with the WW2 sunken wreck a steam tanker names the "R.M. Parker Jr." Do you have information regarding this wreck as a significant cultural feature such that the charting category should be revised in order to protect the historic feature. I have located several internet sources for the RM Parker and the positional information is different with each source; this also includes studies and surveys from MMS and current BOEMRE, and all geographic locations do not have positional correlation to this submitted Danger to Navigation.  
Any information and a speedy response is requested as this feature is

a  
true Danger to Navigation and it requires charting.  
Thanks for your attention to this matter.  
Regards,  
Castle Parker

----- Original Message -----

Subject: H12069 DtoN#1  
Date: Fri, 24 Jun 2011 10:29:40 -0400  
From: Rosemary Abbitt<[Rosemary.Abbitt@noaa.gov](mailto:Rosemary.Abbitt@noaa.gov)>  
To: [OCS.NDB@noaa.gov](mailto:OCS.NDB@noaa.gov)  
CC: Gene Parker<[Castle.E.Parker@noaa.gov](mailto:Castle.E.Parker@noaa.gov)>, [john.baker@cctechonol.com](mailto:john.baker@cctechonol.com),

Tim Osborn<[Tim.Osborn@noaa.gov](mailto:Tim.Osborn@noaa.gov)>, [Patrick.Fink@noaa.gov](mailto:Patrick.Fink@noaa.gov), CDR Rick  
Brennan<[Richard.T.Brennan@noaa.gov](mailto:Richard.T.Brennan@noaa.gov)>, James M Crocker  
<[James.M.Crocker@noaa.gov](mailto:James.M.Crocker@noaa.gov)>, Kathleen Jamison<[Kathleen.Jamison@noaa.gov](mailto:Kathleen.Jamison@noaa.gov)>

Good Day,

Please find attached a zip file for survey H12069\_DtoN report #1, 42ft  
Wreck, for submission to Marine Chart Division (MCD). The contents of  
the attached WinZip file were generated at Atlantic Hydrographic Branch.  
The attached zip file contains a DtoN Letter (PDF) and a Pydro XML file.

If you have any questions, please direct them back to me; email me or  
call  
757-441-6746 x104

Thank you for your assistance with this matter,  
Rosemary Abbitt

**ROV INVESTIGATIONS OF THE DKM **U-166** SHIPWRECK SITE TO  
DOCUMENT THE ARCHAEOLOGICAL AND BIOLOGICAL ASPECTS OF THE  
WRECK SITE**

**FINAL PERFORMANCE REPORT**

NOAA AWARD NO. NA03OAR4600103

Prepared for the NOAA Office of Ocean Exploration

By



730 East Kaliste Saloom Road  
Lafayette, LA 70508

**October 2004**

A handwritten signature in black ink that reads "Daniel J. Warren".

Daniel J. Warren  
Marine Archaeologist/Principle Investigator

## **AUTHOR PAGE**

Daniel Warren  
Principle Investigator/Marine Archaeologist  
C & C Technologies, Inc.

Robert Church  
Co-Principle Investigator/Marine Archaeologist  
C & C Technologies, Inc.

Dr. Roy Cullimore  
Co-Principle Investigator/Senior Microbiologist  
Droycon Bioconcepts, Inc.

Lori Johnston  
Field Microbiologist  
Droycon Bioconcepts, Inc.

## Author's Note

The DKM *U-166* and the S.S. *Robert E. Lee* are recognized war graves and irreplaceable pieces of the world's maritime heritage. Therefore, all coordinates and block numbers have been excluded from this report in an effort to protect the integrity of the wreck sites.

## ABSTRACT

In October 2003, investigations were undertaken by C & C Technologies Inc., in conjunction with the NOAA Office of Ocean Exploration, Droycon Bioconcepts, Inc. and the PAST Foundation, to document the wreck site of the DKM *U-166* in 5,000 feet of water in the Mississippi Canyon Area of the Gulf of Mexico. At the time, the project was the deepest archaeological investigation ever conducted in the Gulf of Mexico. This project marked one of the first instances that positioning technology that is routinely used in the offshore oil and gas industry was utilized on a deepwater archaeological investigation of a shipwreck. During the five-days between October 5 and October 10, 2003, scientists utilized a Sonsub Innovator Class remotely operated vehicle, deployed from the NOAA Research Vessel *Ronald H. Brown*, to produce a detailed archaeological map of the wreck of DKM *U-166*, place microbiological experiments, and obtains samples of the microbiological communities present at the site. During the investigation, a 945 x 600 feet area encompassing 718,760 square feet or 16.5 acres of seafloor was surveyed and three hundred and seven individual or groups of artifacts were mapped and documented using digital video and still imagery. Through careful examination of the data collected from the site, we have a better understanding of the site size and artifact distribution, the microorganisms that now thrive on the wreck, and the events that destroyed the DKM *U-166*. This report describes the fieldwork that was undertaken and discusses the results of the analysis of both the archaeological and microbiological findings.

## AHB COMPILATION LOG

<b>General Survey Information</b>	
REGISTRY No.	H12069
PROJECT No.	OPR-354-KR-09
FIELD UNIT	C&C
DATE OF SURVEY	20091013 - 20100408
LARGEST SCALE CHART	<i>11356, edition 38, 20080601, 1:80,000</i>
ADDITIONAL CHARTS	<i>11357, edition 41, 20110501, 1:80,000</i>
SOUNDING UNITS	<b>FEET</b>
COMPILER	James J Miller

<b>Source Grids</b>	<b>File Name</b>	
	T:\SAR\H12069_K354_CC\AHB_H12069\SAR Final Products	
	<b>H12069_Sub1_2m_Final.csar</b>	<b>H12069_Sub5_2m_Final.csar</b>
	<b>H12069_Sub2_2m_Final.csar</b>	<b>H12069_Sub6_2m_Final.csar</b>
	<b>H12069_Sub3_2m_Final.csar</b>	<b>H12069_Investigations_50cm.csar</b>
	<b>H12069_Sub4_2m_Final.csar</b>	
<b>Surfaces</b>	<b>File Name</b>	
	T:\SAR\H12069_K354_CC\AHB_H12069\COMPILE\Working	
<i>Combined</i>	<b>H12069_4m_Combined.csar</b>	
<i>Interpolated TIN</i>	\Interpolated TIN\H12069_12m_InterpTIN.csar	
<i>Shifted Interpolated TIN</i>	\Interpolated TIN\Shifted Surface\H12069_12m_InterpTIN_Shifted.csar	
<b>Final HOBs</b>	<b>File Name</b>	
	T:\SAR\H12069_K354_CC\AHB_H12069\COMPILE\Final_Hobs	
<i>Survey Scale Soundings</i>	<b>H12069_SS_Soundings.hob</b>	
<i>Chart Scale Soundings</i>	<b>H12069_CS_Soundings.hob</b>	
<i>Contour Layer</i>	<b>H12069_Contours.hob</b>	
<i>Feature Layer</i>	<b>H12069_Features.hob</b>	
<i>Meta-Objects Layer</i>	<b>H12069_MetaObjects.hob</b>	
<i>Blue Notes</i>	<b>H12069_BlueNotes.hob</b>	
<b>Meta-Objects Attribution</b>		
<b>Acronym</b>	<b>Value</b>	
<b>M_COVR</b>		
CATCOV	1 – coverage available	
SORDAT	20100408	
SORIND	US,US,graph,H12069	
<b>M_QUAL</b>		
CATZOC	6 – zone of confidence U (data not assessed)	
INFORM	M/V Andrew Charles	
POSACC	10.0 m	
SORDAT	20100408	
SORIND	US,US,graph,H12069	
SUREND	20100408	
SURSTA	20091013	
<b>DEPARE</b>		
DRVALV1	26.000 ft	
DRVALV2	64.000 ft	
SORDAT	20100408	
SORIND	US,US,graph,H12069	

**SPECIFICATIONS:**

- I. **COMBINED SURFACE:**
  - a. Number of SAR Final Grids: 7
  - b. Resolution of Combined (m): 4 m
  
- II. **SURVEY SCALE SOUNDINGS (SS):**
  - a. Attribute Name: Depth
  - b. Selection criteria: Radius, Shoal bias
  - c. Radius value is: mm at map scale (80k)
    - i. Use single-defined radius: N/A
    - ii. And/Or use radius table file: H12069\_SS\_SSR.txt [XXk = chart scale]

```

H12121_SS_SSR.txt - Notepad
File Edit Format View Help
0.000000 14.0208 1.1
14.02081 30.0 1.2
    
```

  - d. Queried Depth of All Soundings
    - i. Minimum: 8.089 m
    - ii. Maximum: 19.561 m
  
- III. **INTERPOLATED TIN SURFACE:**
  - a. Resolution (m): 12 m
  - b. Interpolation method: Natural Neighbor
  - c. Shift value: -0.75ft [only include applicable shift values]  
[-0.75 feet (And/Or) -0.75 fathoms]
  
- IV. **CONTOURS:**
  - a. Attribute Name: Depth
  - b. Use a Depth List: H12069\_depth\_contours.txt
  - c. Output Options: Create contour lines
    - i. Line Object: DEPCNT
    - ii. Value Attribute: VALDCO
  
- V. **FEATURES:**
  - a. Number of Chart Features: 24 [all features included in H-Cell]
  - b. Number of Non-Chart Features: 0 [all features submitted by field & not included in H-Cell]
  
- VI. **CHART SURVEY SOUNDINGS (CS):**
  - a. Number of ENC CS Soundings: 208
  - b. Attribute Name: Depth
  - c. Selection criteria: Radius, Shoal bias
  - d. Radius value is: Distance on the ground (m)
    - i. Use single-defined radius: N/A
    - ii. And/Or use radius table file: H12069\_CS\_SSR.txt [XXk = chart scale]

```

H12069_CS_SSR.txt - Notepad
File Edit Format View Help
0.000000 13.4112 850
13.41121 50.0000 1050
    
```

  - e. Number Survey CS Soundings: 201
  
- VII. **NOTES:**