

UNITED STATES DEPARTMENT OF THE INTERIOR

MINERALS MANAGEMENT SERVICE

Gulf of Mexico OCS Region

New Orleans, Louisiana

FINAL

SITE-SPECIFIC ENVIRONMENTAL ASSESSMENT

ENDANGERED SPECIES / STRUCTURE REMOVALS

ES/SR Nos. 03-031 and 03-032

Assessment of the Environmental Impacts  
of the Proposals to Remove  
Caisson #5 in Eugene Island Area, Block 126, Lease OCS-G 052, and  
Production Platform A in Brazos Area, Block 399, Lease OCS-G 7218  
by  
Ocean Energy, Inc.

Date Submitted: March 11, 2003

Commencement Date: June 2003


Prepared by  
William Engelhardt  
Biologist

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SITE-SPECIFIC ENVIRONMENTAL ASSESSMENT/FONSI/EIS DETERMINATION

Ocean Energy, Inc.'s applications to use explosives to remove Caisson #5 in Eugene Island Area, Block 126, OCS-G 052, and in Brazos Area, Block 399, OCS-G 7218 have been reviewed. Our SEA, ES/SR 03-031 and 032, on the subject action is complete and results in a Finding of No Significant Impact. Based on the conclusions of the SEA, there is no evidence to indicate that the proposed action will significantly (40 CFR 1508.27) affect the quality of the human environment. Preparation of an environmental impact statement is not required. Mitigation is imposed to ensure environmental protection, consistent environmental policy and safety as required by the National Environmental Policy Act (NEPA), as amended; or measures needed for compliance with 40 CFR 1500.2(f) regarding the requirement for Federal agencies to avoid or minimize any possible adverse affects of their actions upon the quality of the human environment.

  
\_\_\_\_\_  
Chief, Project Management Section  
Leasing and Environment, GOM OCS Region

3/10/03  
Date

## INTRODUCTION AND BACKGROUND

The purpose of this Site-Specific Environmental Assessment (SEA) is to assess the specific impacts associated with proposed structure-removal activities. The SEA is based on a Programmatic Environmental Assessment (PEA) (USDOJ, MMS 1987) which evaluates a broader spectrum of potential impacts resulting from the removal of structures (e.g., platforms/caissons across the central and western planning areas of the Gulf of Mexico [GOM] Outer Continental Shelf). The PEA/SEA process is designed to simplify and reduce the size of environmental assessment documents by eliminating repetitive discussions of the same issues. This SEA conforms to the Minerals Management Service (MMS) and other appropriate guidelines for preparing environmental assessments by utilizing data presented in the PEA to complete the assessment. It presents site-specific data regarding the proposed structure removal activities and evaluates the potential impacts. Mitigation measures are contained in this document to lessen potential impacts. Preparation of this SEA has allowed the determination of whether a Finding of No Significant Impact (FONSI) is appropriate or whether further assessment of the proposal is necessary.

### I. DESCRIPTION AND NEED FOR THE PROPOSED ACTION

Ocean Energy, Inc. proposes to use explosives to remove Caisson #5 in Eugene Island Area, Block 126, Lease OCS-G 052, and Production Platform A in Brazos Area, Block 399, OCS-G 7218 . Caisson #5 lies approximately 25 miles from the nearest Louisiana shoreline, and approximately 55 miles from the onshore support base in Morgan City, Louisiana. Production Platform A lies approximately 15 miles from the nearest Texas shoreline, and approximately 265 miles from the onshore support base in Morgan City, Louisiana. The structures are located at water depths of 40 and 60 feet, respectfully. The operator proposes to explosively sever and remove the wells, piles, legs, and conductors a minimum of 16 feet below the mudline. Refer to Appendix A for structure specifications, additional data on removal techniques, types and quantities of explosives to be used, and sequence of events.

A discussion of the legal and regulatory mandates to remove abandoned oil and gas structures from Federal Waters can be found in the PEA. According to the operator, the structures have no further utility at this location and the wells will be permanently abandoned.

### II. ALTERNATIVES TO THE PROPOSED ACTION

Alternatives to the proposed structure removals with mitigation originally submitted are:

#### A. NON-REMOVAL OF THE STRUCTURES

The alternative to the proposed structure removals as originally submitted is non-removal. Non-removal of the structures would represent a conflict with Federal legal and regulatory requirements, which mandate the timely removal of obsolete or abandoned

structures within a period of one year after termination of the lease, or upon termination of a right-of-use and easement. Therefore, non-removal is not an acceptable alternative.

#### B. REMOVAL OF THE STRUCTURE BY ALTERNATIVE NON-EXPLOSIVE METHODS

Minerals Management Service initially discussed various structure-removal techniques in the Final Environmental Impact Statement (FEIS) for Proposed Oil and Gas Lease Sales 118 and 122 (USDOl, MMS, 1988) and in the PEA. Updated information is also found in the FEIS for Sales 169, 172, 175, 178, and 182 (USDOl, MMS, 1997) and the FEIS for Sales 171, 174, 177, and 180 (USDOl, MMS, 1998). It was concluded that the most effective methods of structure removal are the use of explosives, either bulk or shaped charges, abrasive cutters, and underwater arc cutting. Other methods appear promising but require additional development to solve the operational and logistical problems associated with these techniques. Primarily for this reason, these methods do not appear to be feasible alternatives for the removal of the subject structures.

#### C. REMOVAL OF THE STRUCTURES AS PROPOSED WITH ADDED MITIGATION

It has been determined that the proposed operations fall within the category of activities covered by the National Marine Fisheries Service (NMFS) also known as National Oceanic and Atmospheric Administration Fisheries (NOAA Fisheries) Biological Opinion of July 25, 1988, which addresses "standard" explosive structure removals in the GOM.

Measures that Ocean Energy, Inc. proposes to implement to reduce the likelihood of death or injury to sea turtles and marine mammals are discussed in the structure removal application. For additional information, refer to the terms and conditions of the "generic" Incidental Take Statement (Appendix B). Outer Continental Shelf Operating Regulations, Notices to Lessees and Operators, and other regulations and laws were identified throughout this assessment as existing mitigation for potential environmental effects associated with the proposed structure removal application. Additional information can be found in the PEA.

The following mitigative measures will be included in MMS's approval of the proposed structure removals to ensure environmental protection, consistent environmental policy, and safety as required by the National Environmental Policy Act (NEPA):

Our review indicates that there are pipelines in the vicinity that may pose a hazard to your proposed operations. Therefore, please be advised that you will take precautions in accordance with Notice to Lessees and Operators No. 98-20, Section IV.B, prior to performing operations.

Under the Magnuson Fisheries Management Act, 50 CFR 600.920 prohibits the use of explosives to take reef fish in the Exclusive Economic Zone. Consequently, those

involved in explosive structure removals must not take such stunned or killed fish on board their vessels. Should this happen, they could be charged by the National Marine Fisheries Service with violation of the Act. If you have questions, contact the National Marine Fisheries Service at (727) 570-5305.

### III. ENVIRONMENTAL EFFECTS, SOCIOECONOMIC CONCERNS, AND OTHER CONSIDERATIONS.

In accordance with *The National Environmental Policy Act (NEPA) of 1969, as amended* (Pub. L. 91-190, 42 U.S.C. 4321-4347, January 1, 1970, as amended by Pub. L. 94-52, July 3, 1975, Pub. L. 94-83, August 9, 1975, and Pub. L. 97-258, § 4[b], Sept. 13, 1982) and the Council on Environmental Quality (CEQ) implementing regulations (40 CFR Sec. 1502.15) *Affected Environment*, the following potential environmental effects were identified from the proposed action. Mitigative measures are included to eliminate or reduce the potential effect from the proposed activities to a level of insignificance as described in 40 CFR Sec. 1508.27

#### A. PHYSICAL ENVIRONMENT

A discussion of environmental geology, geologic hazards, meteorological conditions, physical and chemical oceanography, water quality and air quality can be found in the PEA. The proposed structure-removal activities are not in an area of sediment instability (mud flows, slumps, or slides). Environmental effects to the physical environment have been considered, but potential impacts from the proposed activities were deemed insignificant (40 CFR 1508.27) and are not discussed in this SEA.

#### B. BIOLOGICAL ENVIRONMENT

A discussion of coastal habitats, protected, endangered and threatened species (birds, marine mammals, and sea turtles), and sensitive marine habitats are discussed in the PEA. The PEA delineates sensitive areas along the Texas coastline where whooping cranes and brown pelicans could be adversely impacted by structure-removal support activities. Since the operator will use a shore base in Intracoastal City, Louisiana, no impacts to these sensitive areas are expected.

A discussion of marine mammals occurring across the Gulf of Mexico (GOM) and an assessment of the potential impacts of structure-removal activities on marine mammals can be found in the PEA. Fritts et al. (1983) conducted aerial surveys across a 9,514 square-mile area of GOM waters. Results of these surveys indicate that the bottlenose dolphin is by far the most likely marine mammals to be encountered in the GOM. Minerals Management Service and /or NMFS (NOAA Fisheries) observers may be utilized to look for marine mammals prior to detonation of the primary charges at the removal site. If marine mammals are detected at the structure-removal sites, detonation of the primary charges will be delayed until the animals are removed from the area.

NMFS issued final regulations amending 50 CFR part 216 (67 FR 148, August 1, 2002, pp. 49869-49875 for the incidental take of bottlenose (*Tursiops truncatus*) and

spotted (*Stenella frontalis* and *S. attenuata*) dolphins by U.S. citizens holding a Letter of Authorization that are engaged in structure removals in state and Federal OCS waters of the Gulf of Mexico. The incidental take is limited annually to a combined total of no more than 200 takings by harassment between the period of August 1, 2002 through February 2, 2004.

Please refer to the Federal Register of August 1, 2002 for the description of the specific activity and specific geographic region, permissible methods of taking, prohibitions, mitigation, and requirements for monitoring and reporting.

In spite of these precautions, a low probability exists that marine mammals could enter the blast area undetected and could be injured or killed by the underwater, subsurface detonations. Such an occurrence is considered highly unlikely and, with the indicated protective mitigation measures outlined in the "Generic" Biological Opinion, the proposed structure-removal activities are expected to have only a low impact on marine mammals.

A discussion of sea turtles occurring across the central and western GOM and an assessment of the potential impacts of structure-removal activities on sea turtles can be found in the PEA. Studies by Fritts et al. (1983) and Fuller and Tappan (1986) as well as stranding data from the Sea Turtle Stranding and Salvage Network (Teas 1995) indicate that sea turtles may occur in the vicinity of the proposed activities and therefore could be impacted by the structure-removal operations. Definitive information on the probability of encountering sea turtles at the removal site during explosive operations is scarce. The NMFS (NOAA Fisheries) and/or MMS observers will be utilized to look for sea turtles prior to detonation of the primary charges. If sea turtles are detected at the structure-removal site, detonation of the primary charges will be delayed until the animals are removed from the area. The possibility exists that sea turtles could enter the blast areas undetected and could be injured or killed by the underwater, subsurface detonations. However, with the indicated protective mitigation measures, we expect the proposed structure-removal activities to have only a low impact on sea turtles. The NMFS (NOAA Fisheries) authorized a cumulative incidental take for this category action, but with all the precautions to be taken as mitigating measures, it is unlikely these proposed operations will affect any sea turtles.

We considered other environmental effects to the biologic environment, but potential impacts from the proposed activities were deemed insignificant (40 CFR 1508.27) and are not discussed further in this SEA.

### C. OTHER CONSIDERATIONS

A discussion of socioeconomic, commercial and recreational fisheries, archaeological resources, military warning areas, explosive dumping areas, navigation and shipping areas, pipelines, cables, other mineral uses, and health and human safety can be found in the PEA.

Other environmental effects to the socioeconomic concerns have been considered, but potential impacts from the proposed activities were deemed insignificant (40 CFR 1508.27) and are not discussed further in this SEA.

Since the PEA was originally written, new concerns have emerged concerning the impacts of explosive structure removals on reef fish populations. On May 9, 1991, the GOM Fishery Management Council expressed concern over the declining stocks of reef fish, especially red snapper. They referred to the anecdotal accounts of finfish kills associated with explosive removals of offshore structures in order to link these activities with their concerns about declining populations of reef fish. They further suggested that MMS should hold all explosive structure removals in abeyance until more information becomes available on the effects of these activities on fish stocks. See the PEA (Section on Offshore Habitats and Biota) for a discussion of fish kills in association with explosive structure removals.

Minerals Management Service has declined to hold all explosive structure removals in abeyance citing the regulatory mandates for structure removals and problems with current non-explosive structure-removal methods. Minerals Management Service has stated a commitment to carry out studies to assess the impacts of oil and gas structure removals on Gulf fisheries resources and the results of these studies will be used to determine future policies with respect to these activities.

Minerals Management Service continues to consider the overall impacts of structure removals on commercial fishing to be low. Minerals Management Service policy of encouraging an active rigs-to-reefs program will help to offset cumulative structure-removal impacts to fisheries resources.

#### D. UNAVOIDABLE ADVERSE IMPACTS

A discussion of unavoidable adverse impacts can be found in the PEA. Two areas of ongoing concern have been the potential impact to protected, threatened, and/or endangered species and potential loss of habitat to the marine environment. Both topics are discussed in the PEA and previously in this document. A more recent issue of concern has surfaced regarding the impacts of explosive structure-removals on reef fish stocks. Although the impacts to commercial and recreational fisheries are considered to be low, further studies information about this issue will be available in the future. Other unavoidable adverse impacts are considered to be minor.

#### IV. PUBLIC OPINION

A discussion of public concerns regarding structure removals can be found in the PEA. No public comments have been received regarding the proposed structure-removal operations.

In May 1991, the GOM Fishery Management Council requested that MMS place a moratorium over the explosive removal of offshore structures with three or more supports. Non-removal of these structures would conflict with current Federal legal and

regulatory requirements which mandate the timely removal of abandoned or obsolete structures within a period of one year after termination of the lease, or upon termination of a right-of-use and easement.

Minerals Management Service believes that current data on the effects of explosive removals on fish mortality are insufficient to draw any conclusions, and a moratorium on all but single pile caissons at this time is unjustified. In order to quantify explosive effects, MMS initiated an interagency study with the NMFS (NOAA Fisheries) to determine fish mortalities from removal operations. In addition to the above study, MMS supports an active rigs-to-reefs program and encourages industry to search for a method that will minimize effects on fish from structure-removal operations.

## V. CONSULTATION AND COORDINATION

In accordance with the provisions of Section 7 of the Endangered Species Act, as amended, the proposed structure-removal operations are covered by the Biological Opinion issued by the NMFS (NOAA Fisheries) on July 25, 1988, which established a category of "standard" explosive structure-removal operations. Their comments are included in Appendix B. The NMFS (NOAA Fisheries) concluded that this category of structure-removal activities will not likely jeopardize the continued existence of any threatened or endangered species under their purview. Additionally, they concluded that this type of "standard" structure-removal activity may result in injury or mortality of loggerhead, Kemp's Ridley, green, hawksbill, and leatherback turtles. Therefore, they established a cumulative level of incidental take and discussed various measures necessary to monitor and minimize this impact (see Appendix B). The NMFS (NOAA Fisheries) noted that no incidental taking of marine mammals was authorized under Section 101(a)(5) of the Marine Mammal Protection Act of 1972 in connection with this category of structure-removal activities. Therefore, taking of marine mammals by the operator will be prohibited unless they successfully apply for and obtain a Letter of Authorization to do so from the NMFS (NOAA Fisheries).



## VI. BIBLIOGRAPHY AND SPECIAL REFERENCES

- Fritts, T.H., A.B. Irvine, R.D. Jennings, L.A. Collum, W. Hoffman, and M.A. McGehee. 1983. Turtles, birds, and mammals in the northern Gulf of Mexico and nearby Atlantic waters. U.S. Fish and Wildlife Service, Division of Biological Services, Washington, D.C.
- Fuller, D.A. and A.M. Tappan. 1986. The occurrence of sea turtles in Louisiana coastal waters. Coastal Fisheries Institute. Center for Wetland Resources. Louisiana State University. Baton Rouge, LA.
- Gitschlag, Gregg R., 2000. Personal Communication Concerning a Cumulative Trip Report Summary of Marine Mammal Observations during Explosive Structure Removal Operations; November 1995 to November 2000. Information Transfer Meeting, New Orleans Hilton. December 7, 2000.
- Teas, Wendy, G. 1995. 1994 Semi-annual Report of the Sea Turtle Stranding and Salvage Network. Atlantic and Gulf Coasts of the United States. January - June 1994. National Marine Fisheries Service. Southeast Fisheries Center, Miami Laboratory, 75 Virginia Beach Drive, Miami, FL.
- U.S. Department of the Interior. Minerals Management Service. 1997. Final Environmental Impact Statement. Gulf of Mexico Sales 169, 172, 175, 178 and 182: Central Planning Area. OCS EIS/EA MMS 97-0033. Washington, D.C. Available from NTIS, Springfield, VA.
- U.S. Department of the Interior. Minerals Management Service. 1998. Final Environmental Impact Statement. Gulf of Mexico Sales 171, 174, 177, and 180: Western Planning Area. OCS EIS/EA MMS 98-0008. Washington, D.C. Available from NTIS, Springfield, VA.
- U.S. Department of the Interior. Minerals Management Service. 1987. Programmatic Environmental Assessment. Structure-removal activities Central and Western Gulf of Mexico Planning Areas. OCS/EA 87-0002. Gulf of Mexico OCS Region, New Orleans, LA.

VII. PREPARER

Author: William Engelhardt - Biologist

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VIII. APPENDICES

A. OCEAN ENERGY, INC. CORRESPONDENCE

B. NMFS or NOAA FISHERIES CORRESPONDENCE

APPENDIX A  
OCEAN ENERGY, INC. CORRESPONDENCE



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03-031

Mr. Donald Howard  
U. S. Department of Interior  
Minerals Management Service, GOMR  
Office of Structural and Technical Support (MS 5210)  
1201 Elmwood Park Boulevard  
New Orleans, Louisiana 70123

February 14, 2003



Platform Decommissioning  
Eugene Island 126 #5  
Complex ID. 20835  
OCS-G- 00052  
Eugene Island 126 Field

Dear Sir(s):

Ocean Energy, Inc., (OEI), requests approval to remove the subject platform. We plan to perform the removal during the summer of 2003.

Please find enclosed in triplicate, pertinent information related to the salvage operation. Explosives will be employed. Conventional methods are proposed with consideration given to the NMFS' efforts to eliminate the effects of explosives on endangered marine life.

A site clearance verification plan in accordance with NTL-98-26 will be submitted for this platform at a later date when a trawling contractor and positioning contractor have been chosen.

Should you have any questions, please feel free to contact myself at (337) 993-4313 or Mr. Dean Whitaker at (337) 993-4396.

Very truly yours,

OCEAN ENERGY, INC.

  
Fritz Ory.  
Construction Engineer- Advisor

Cc: EI 126 #5 Platform Decommissioning, Mark Day, Central Files, Petra Consultants, Jeff Suski, Paul Landry

**Eugene Island 126 #5**  
**Decommissioning Permit**  
February 14, 2003

**BEST AVAILABLE COPY**

## PROPOSED PLATFORM / STRUCTURE REMOVAL

### I. Responsible Party

- A. Lease Operator Name: Ocean Energy, Inc.
- B. Address 3861 Ambassador Caffery Parkway, Suite 100  
Lafayette, LA 70503
- C. Contact Person (s) and Telephone number (s):  
Fritz Ory (337) 993-4313
- D. Base of Operations: Ocean Energy's Morgan City Base  
Morgan City, LA

### II. Identification of Structure to be removed:

- A. Platform Name: Eugene Island 126 #5  
OCS-G- 000052  
Complex ID 20835
- B. Location (lease, area, block and coordinates):  
Eugene Island 126 OCS-G- 000052  
X= 1953375 Y= 107498  
Lat= 28° 57' 43.97"N Lon =91° 28' 44.15"W
- C. Date Installed (Year): 1964
- D. Proposed date of removal (month/year): 06/03
- E. Water Depth: 40 feet

### III. Description of Structure to be removed:

- A. Configuration: Self Supporting Caisson  
(see attached Drawing and Photo)
- B. Size: Main Deck dimensions are approximately 11' X 18'
- C. Number of Legs/Casings/Pilings  
Platform legs: One (1) legs and 0 (0) piles  
Well casings: One (1) well conductors



D. Diameter and wall thickness of legs/casings/pilings:

Platform legs: 33" dia. x 0.750"

Casings: (see attached sketches)

33" O.D. x 0.750" w.t.; 10 3/4" O.D. x 0.350" w.t.

Pilings: N/A "

E. Are piles grouted? N/A Inside or outside? N/A

F. Brief Description of Soil Composition and Condition: Silt and silty clay.

IV. **Purpose:**

Brief description of the reason for removing the structure:

This structure has no further utility at this location. The wells will be permanently abandoned.

The structure will be removed and the site will be cleared.

V. **Removal Method:**

A. Brief description of the method to be used:

After removal of the wellhead, a bulk charge will be placed inside the wells' inner casing string. The charge will then be detonated, severing the wells at a minimum depth of 16' below the mudline.

B. If explosives are to be used, provide the following:

1. Type of explosives: 50# bulk octagon charge will be used.

2. Number and size of charges:

Platform piles: 0 (0) bulk charges @ 0# ea.

Well casing (s): One (1) bulk charges @ 50# ea.

a. Single shots or multiple shots? Single

b. If multiple shots, then sequence and timing of detonations:

Platform piles and well casings: The platform piles and well casings will be shot in series involving detonations. A maximum of (N/A) shots per series will be used for the well casings and piles with a 0.9 second delay between shots and one minute between series. Backup explosives of 50# ea. will be on hand for all (0) jacket pilings and for each of the (1) well casings.

3. Bulk or shaped charges? Bulk.

a. Depth of detonation below the mudline: The well casings and platform pilings will be severed a minimum depth of 16' below the mudline.

b. Inside or outside piling and/or well casing(s): All charges will be inside.

c. Pre-removal monitoring techniques:

1. Is the use of scare charges or acoustical devices proposed? No

2. Will divers or acoustic devices be used to conduct a pre-removal survey to detect the presence of sea turtles and marine mammals?

Divers will be available to perform a survey in and around the

platform for a period of thirty minutes prior to detonation, if required by NMFS personnel. This survey shall not interfere with the critical path work of the salvage equipment. In addition, the normal aerial survey of 30 minutes prior to and after detonations will be conducted, as required by the NMFS personnel.

- d. Post-removal monitoring techniques:
  - 1. Will transducers be used to measure the presence and impulse of the detonations?: **No**
  - 2. Will divers be used to perform a survey following detonations?:  
Divers will be available to perform a survey following detonations. Any effects on marine life will be recorded during dives made in the course of the diving work.

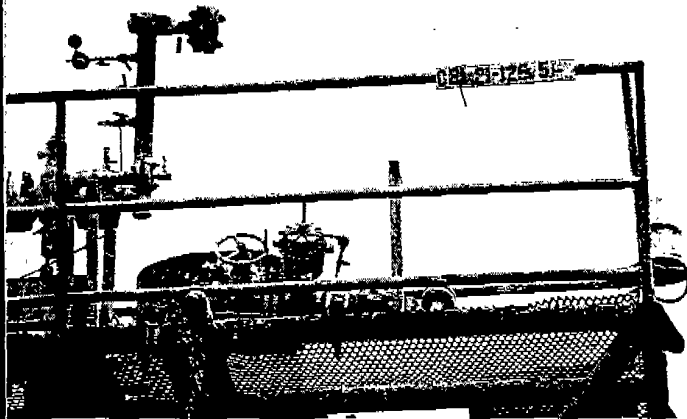
## **VI. Biological Information:**

If available, provide the results of any recent biological surveys conducted in the vicinity of the structure.

There have been no reported sightings of endangered turtles in this area. The field personnel have been instructed to report any turtle sightings in the area.

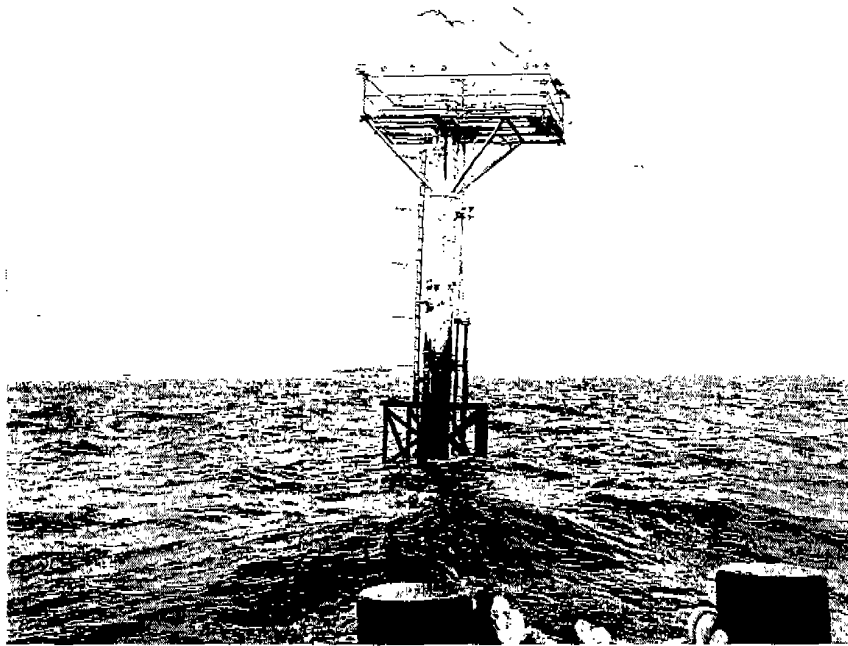
Inspection Details	Platform EI-126-5	Structure No. EI1265	Inspection No. T-2002-1
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Roll-Frame T019-019			



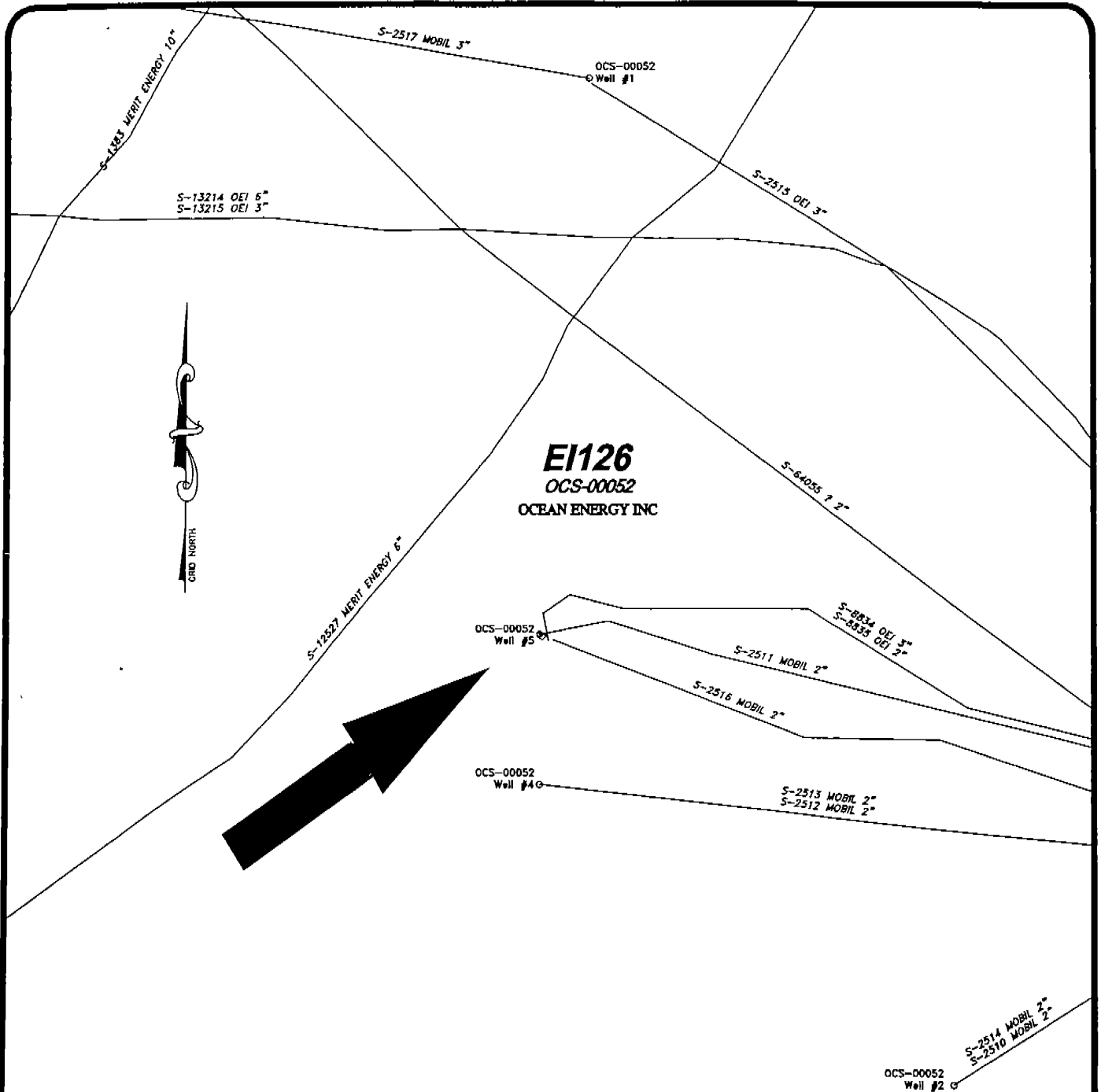
View of structure ID sign.

Overall view of EI-126-5, west face.



Roll-Frame T019-021			

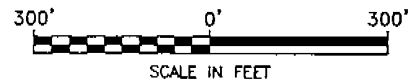
OCEAN ENERGY	Inspection Date 03/21/2002	Company Representative Flynn, P.	<b>CAIRS III</b> <small>© 1996 Oceanwing - Sakil Schell</small>
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**NOTE:**

C&C has necessarily compiled this map with information that may no longer be accurate due to subsequent oceanographic, atmospheric, environmental events, or activities/actions by other persons or entities. In light and consideration of these limitations, this map should NOT be considered authoritative and should NOT be used or relied upon by any person or entity for any positioning, navigational, engineering or other site specific purpose.

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DATE: 01/24/2003 TIME: 10:55 FILENAME: J:\3568\EI126\_5.DWG



**AREA MAP**  
**OCS-00052 No. 5**  
**Block 126**  
**Eugene Island Area**

PREPARED BY:



**C&C Technologies**  
**SURVEY SERVICES**

730 E. MALISTE SALDOM ROAD, LAFAYETTE, LA (318) 281-0680

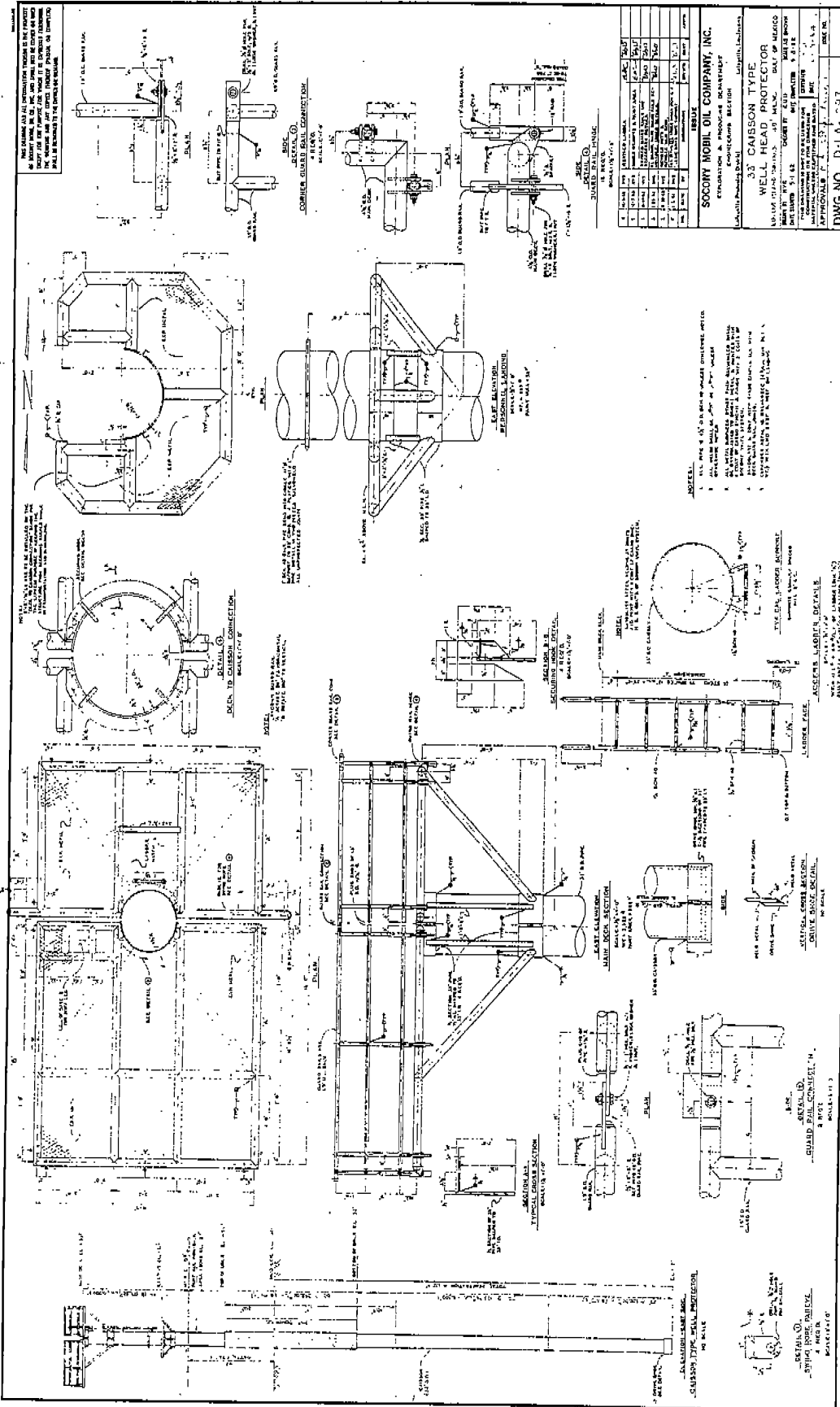
JOB No.: 3568

FILENAME: EI126\_5.DWG

REVISED:

DATE: 01/24/2003

SHEET 1 of 1



REVISIONS		DATE	
1	ISSUED FOR CONSTRUCTION	10/15/58	W. J. HARRIS
2	REVISED TO SHOW WELL HEAD PROTECTOR	11/10/58	W. J. HARRIS
3	REVISED TO SHOW WELL HEAD PROTECTOR	12/15/58	W. J. HARRIS
4	REVISED TO SHOW WELL HEAD PROTECTOR	1/15/59	W. J. HARRIS
5	REVISED TO SHOW WELL HEAD PROTECTOR	2/15/59	W. J. HARRIS
6	REVISED TO SHOW WELL HEAD PROTECTOR	3/15/59	W. J. HARRIS
7	REVISED TO SHOW WELL HEAD PROTECTOR	4/15/59	W. J. HARRIS
8	REVISED TO SHOW WELL HEAD PROTECTOR	5/15/59	W. J. HARRIS
9	REVISED TO SHOW WELL HEAD PROTECTOR	6/15/59	W. J. HARRIS
10	REVISED TO SHOW WELL HEAD PROTECTOR	7/15/59	W. J. HARRIS
11	REVISED TO SHOW WELL HEAD PROTECTOR	8/15/59	W. J. HARRIS
12	REVISED TO SHOW WELL HEAD PROTECTOR	9/15/59	W. J. HARRIS
13	REVISED TO SHOW WELL HEAD PROTECTOR	10/15/59	W. J. HARRIS
14	REVISED TO SHOW WELL HEAD PROTECTOR	11/15/59	W. J. HARRIS
15	REVISED TO SHOW WELL HEAD PROTECTOR	12/15/59	W. HARRIS

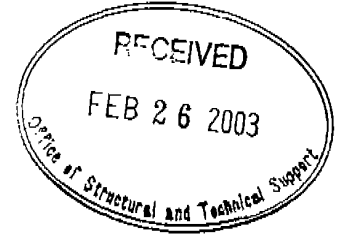
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 DWG NO. D-LA-537

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03-032

Mr. Donald Howard  
U. S. Department of Interior  
Minerals Management Service, GOMR  
Office of Structural and Technical Support (MS 5210)  
1201 Elmwood Park Boulevard  
New Orleans, Louisiana 70123

February 17, 2003



Platform Decommissioning  
Brazos 399 "A"  
Complex ID. # 10504  
OCS-G- 007218  
Brazos 399 Field

Dear Sir(s):

Ocean Energy, Inc., (OEI), requests approval to remove the subject platform. We plan to perform the removal during the summer of 2003.

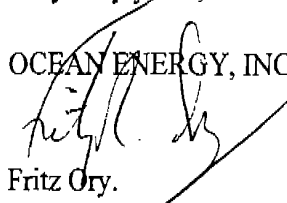
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A site clearance verification plan in accordance with NTL-98-26 will be submitted for this platform at a later date when a trawling contractor and positioning contractor have been chosen.

Should you have any questions, please feel free to contact myself at (337) 993-4313 or Mr. Dean Whitaker at (337) 993-4396.

Very truly yours,

OCEAN ENERGY, INC.



Fritz Ory.

Construction Engineer- Advisor

Cc: BA 399 "A" Platform Decommissioning, Mark Day, Central Files, Petra Consultants, Craig Landry, Paul Landry

**Brazos 399 “A”**  
**Decommissioning Permit**  
February 14, 2003

## PROPOSED PLATFORM / STRUCTURE REMOVAL

### I. Responsible Party

- A. Lease Operator Name: Ocean Energy, Inc.
- B. Address 3861 Ambassador Caffery Parkway, Suite 100  
Lafayette, LA 70503
- C. Contact Person (s) and Telephone number (s):  
Fritz Ory (337) 993-4313
- D. Base of Operations: Ocean Energy's Morgan City Base  
Morgan City, LA

### II. Identification of Structure to be removed:

- A. Platform Name: Brazos 399 "A"  
OCS-G 007218  
Complex ID: 10504
- B. Location (lease, area, block and coordinates):  
Brazos 399 OCS-G-007218  
X=3139158 Y= 308238  
Lat=28° 38' 00.60"N Lon=95° 26' 54.00"
- C. Date Installed (Year): 1991
- D. Proposed date of removal (month/year): 06/03
- E. Water Depth: 60 feet

### III. Description of Structure to be removed:

- A. Configuration: 6-pile, 4-slot, Production Platform with a Main Deck  
(see attached elevation, framing drawings and photo)
- B. Size: Main Deck dimensions are approximately 84' x 68'
- C. Number of Legs/Casings/Pilings  
Platform legs: Six (6) legs and Six (6) piles  
Well casings: Three (3) well conductors



D. Diameter and wall thickness of legs/casings/pilings:

Platform legs: 53" dia. x 0.750"

Casings: (see attached sketches)

A1-48" OD x 1.500" w.t. 16" OD x 0.375" w.t. 10.75" OD x 0.400" w.t.

A2-48" OD x 1.750" w.t. 26" OD x 0.750" w.t. 20.00" OD x 0.438" w.t. 13.375" OD x 0.480" w.t.

A3-24" OD x 0.750 w.t. 16" OD x 0.375" w.t. 10.75" OD x 0.400" w.t.

Pilings: 48" diam. x unk.

E. Are piles grouted? N/A Inside or outside? N/A

F. Brief Description of Soil Composition and Condition: Very soft to stiff clay.

IV. **Purpose:**

Brief description of the reason for removing the structure:

This structure has no future utility at this location.

The wells will be permanently abandoned.

The structure will be removed and the site cleared

V. **Removal Method:**

A. Brief description of the method to be used:

Platform - After removal of the deck, the jacket piles will be open. This will allow explosive charges to be lowered to a minimum depth of 16' below the mudline to internally cut the piles with bulk charges.

Well Casing (s) - After removal of the wellhead, a bulk charge will be placed inside the wells' inner casing string. The charge will then be detonated, severing the wells at a minimum depth of 16' below the midline.

B. If explosives are to be used, provide the following:

1. Type of explosives: C-4, Comp B or SWEDe 111 explosives will be used.

2. Number and size of charges:

Platform piles: Six (6) SWEDe charges @ 50# ea.

Well casing (s): Three (3) bulk charges @ 50# ea.

a. Single shots or multiple shots? Multiple

b. If multiple shots, then sequence and timing of detonations:

Platform piles and well casings: The platform piles and well casings will be shot in series involving detonations. A maximum of 8 shots per series will be used for the well casings and piles with a 0.9 second delay between shots and one minute between series. Backup explosives of 50# ea. will be on hand for all (6) jacket pilings and for each of the (3) well casings.

3. Bulk or shaped charges? Bulk
  - a. Depth of detonation below the mudline: The well casings and platform pilings will be severed a minimum depth of 16' below the mudline.
  - b. Inside or outside piling and/or well casing(s)? All charges will be inside.
  - c. Pre-removal monitoring techniques:
    1. Is the use of scare charges or acoustical devices proposed? No
    2. Will divers or acoustic devices be used to conduct a pre-removal survey to detect the presence of sea turtles and marine mammals? Divers will be available to perform a survey in and around the platform for a period of thirty minutes prior to detonation, if required by NMFS. This survey shall not interfere with the critical path work of the removal equipment. In addition, the normal aerial survey of 30 minutes prior to and after detonations will be conducted, as required by the NMFS.
  - d. Post-removal monitoring techniques:
    1. Will transducers be used to measure the presence and impulse of the detonations? No
    2. Will divers be used to perform a survey following detonations? Divers will be available to perform a survey following detonations. Any effects on marine life will be recorded during dives made in the course of the diving work.

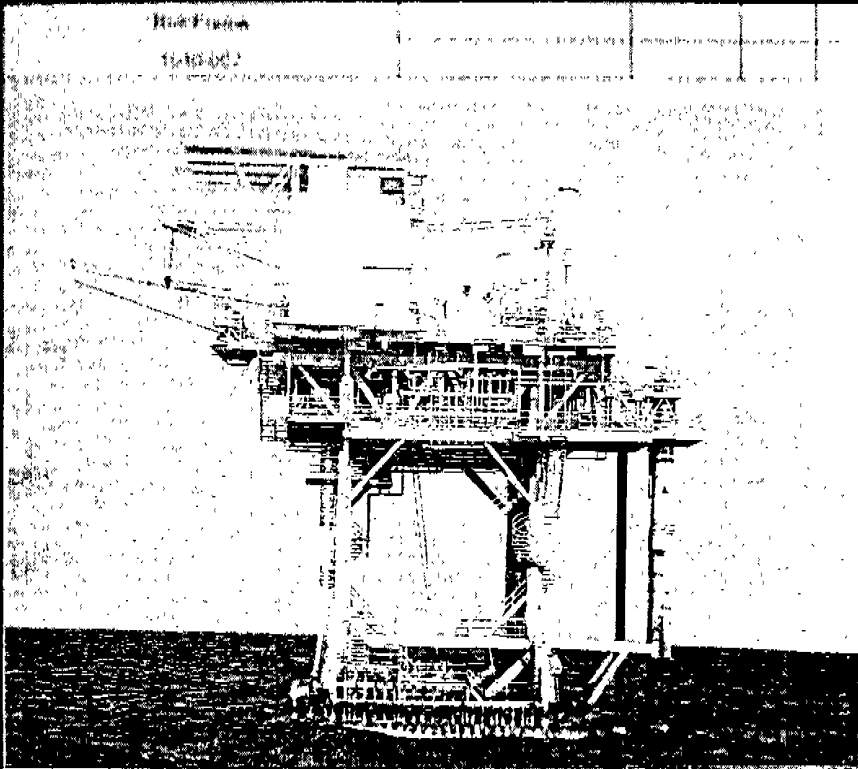
**VI. Biological Information:**

If available, provide the results of any recent biological surveys conducted in the vicinity of the structure.

There have been no reported sightings of endangered turtles in this area. The field personnel have been instructed to report any turtle sightings in the area.

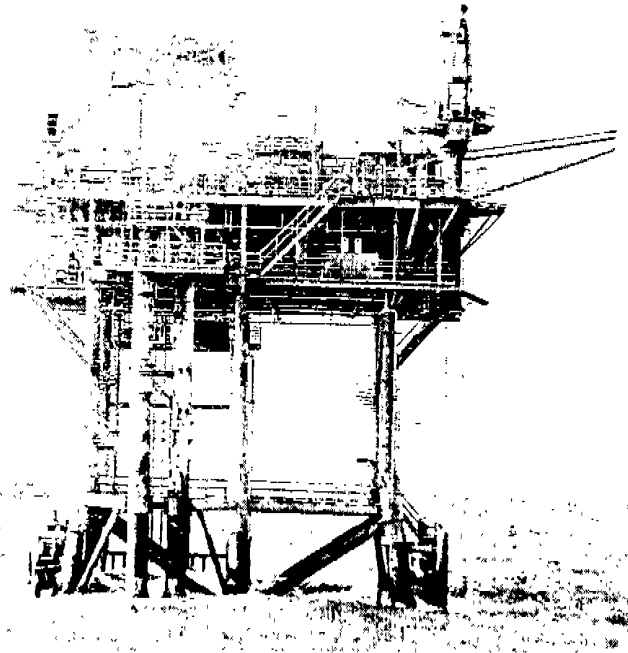
**BEST AVAILABLE COPY**

<b>Inspection Details</b>	<b>Platform</b> BA 399A	<b>Structure No.</b> BA399A	<b>Inspection No.</b> U-2001-1
---------------------------	----------------------------	--------------------------------	-----------------------------------



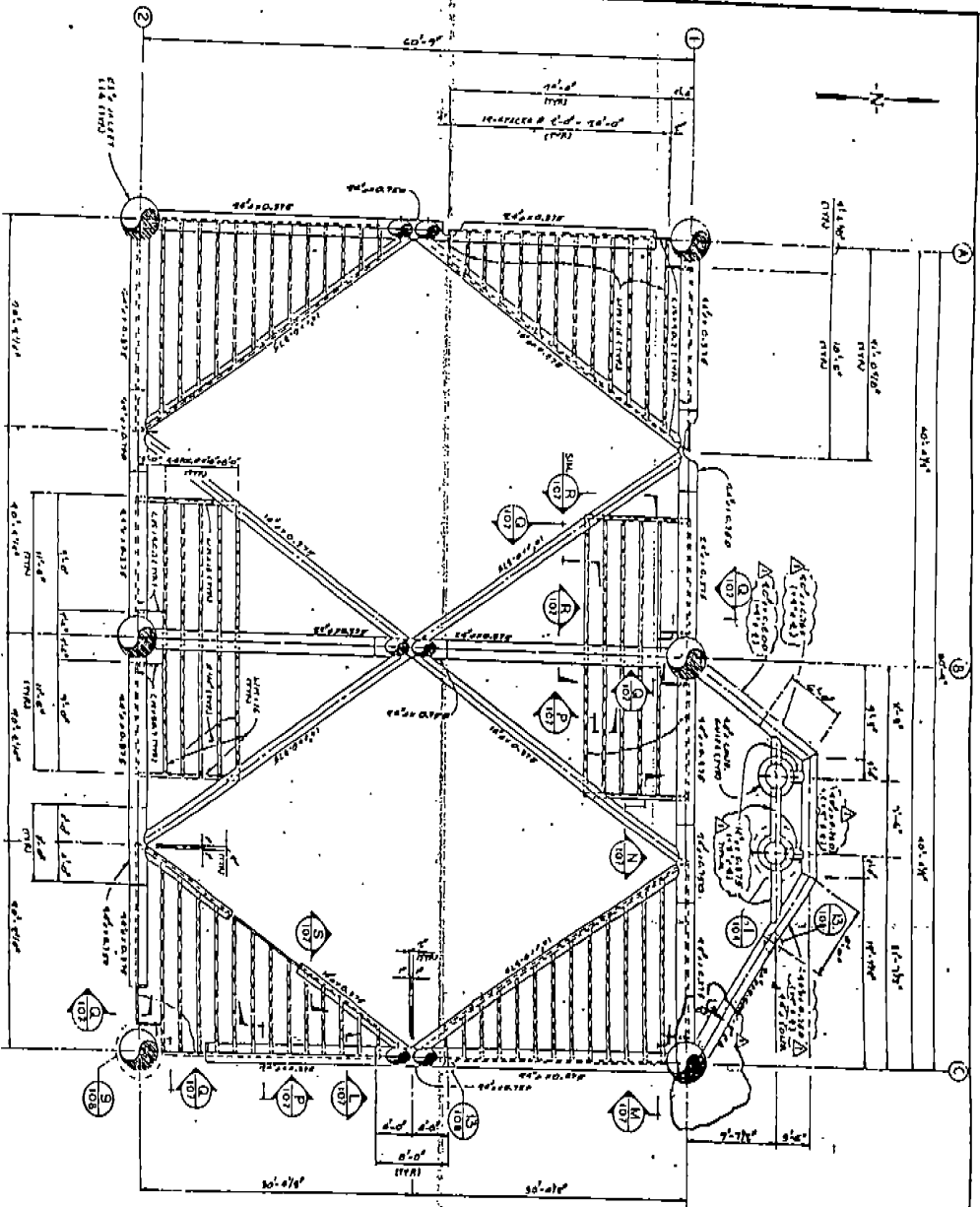
Overall view of BA-399 A, Row C, Leg C1 at right

Overall view of BA-399-A, Row 1, Leg A1 at right



Roll Frame  
 F010-003

<b>OCEAN ENERGY</b>	<b>Inspection Date</b> 09/08/2001	<b>Company Representative</b> Haggerty, G.	<b>CAIRS III</b> <small>© 1997 Caspary, Saks &amp; Co.</small>
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HORIZONTAL FRAMING PLAN AT ELEV. 1-1 50'-0" (WIND) SCALE 1/8" = 1'-0"

ALL WELDS FLUSH AT ELEV. 1-1 50'-0" (WIND)

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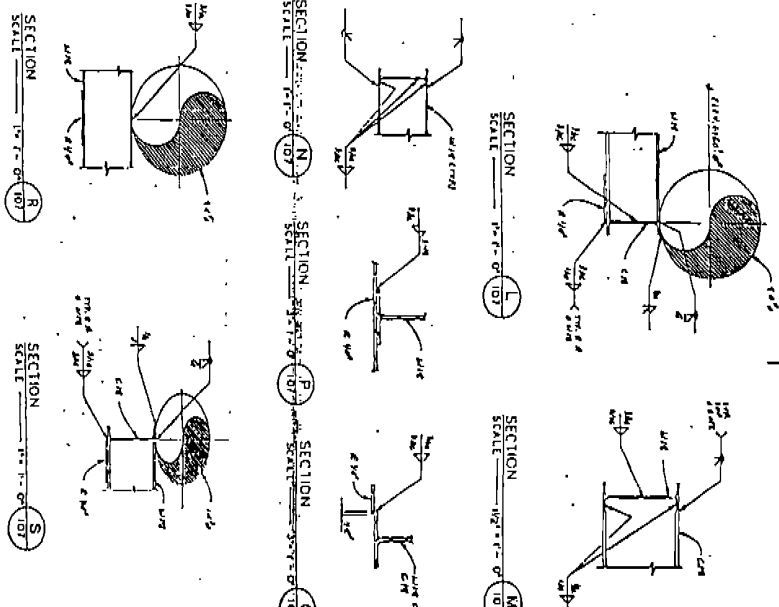
REVISIONS	DATE	BY	DESCRIPTION

**SEAQUILL ENERGY E&P, INC.**  
**TECHNICAL ENGINEERING CONSULTANT**

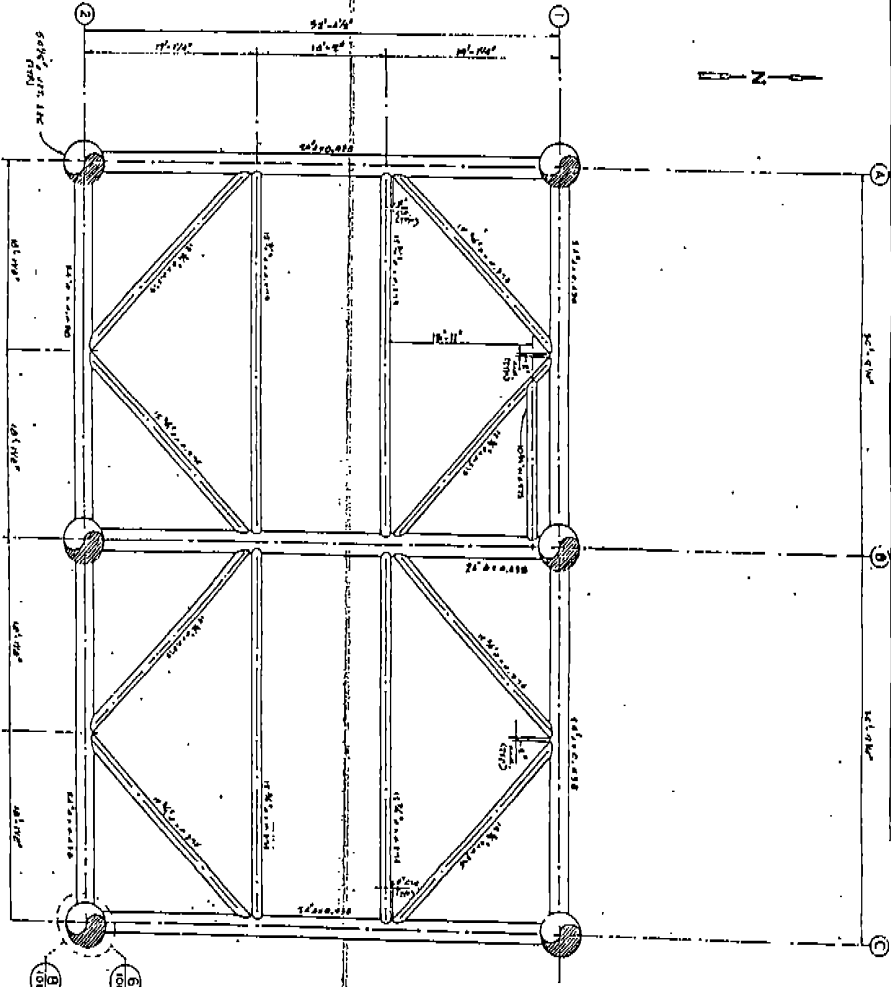
5-FILL WELLS PRODUCTION PLATFORM  
 BRAZOS  
 HORIZONTAL FRAMING PLAN AT ELEV. 1-1  
 OFFSHORE PERFORMERS, INC. (1980)

BEST AVAILABLE COPY

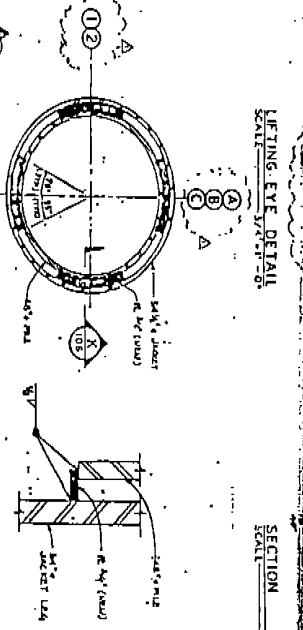
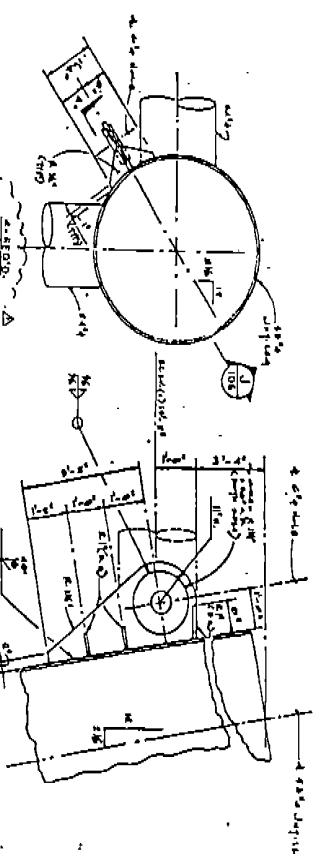
FEB. 14-86



NOTES:  
 1. TAKE NOTES AND JOINTS  
 2. ALL WELDS ARE NEW UNLESS  
 3. OTHERWISE NOTED



HORIZONTAL FRAMING PLAN AT ELEV. 26.66246  
SCALE: 3/16" = 1'-0"



NOTE:  
 1. SEE NOTES ON P. 106-107.  
 2. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.  
 3. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.  
 4. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.  
 5. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.  
 6. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.

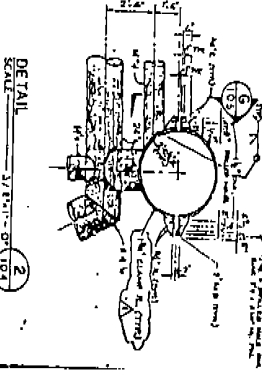
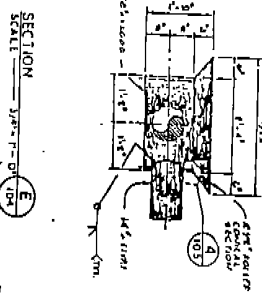
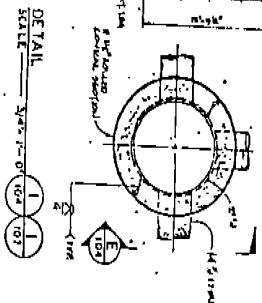
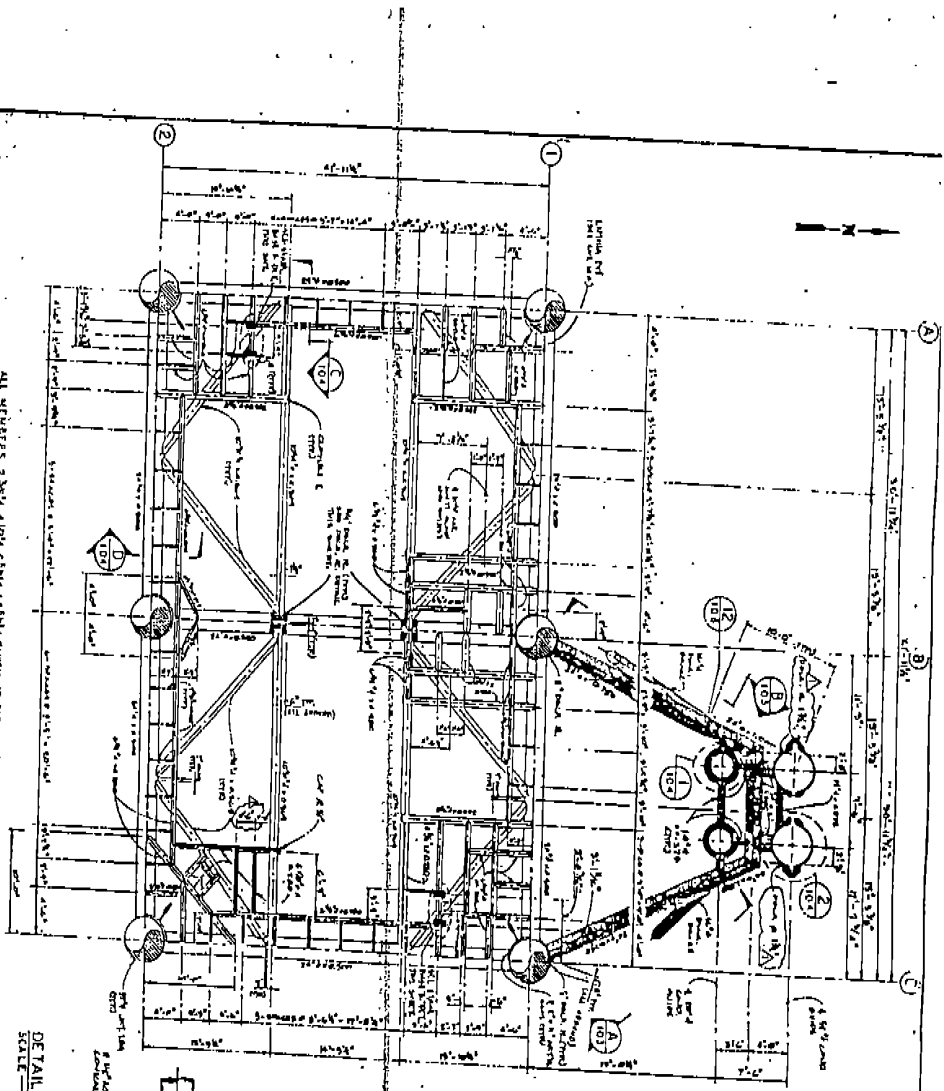
EXIST. STRUCTURE DETAIL TO EXIST. JCT. LEG CORNER  
 AT ELEV. 26.66246  
 SCALE: 3/16" = 1'-0"

SECTION  
 SCALE: 3/16" = 1'-0"

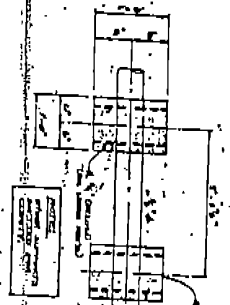
FEB. 1, 1991

<b>PEC TECHNICAL ENGINEERING CONSULTANTS</b>	
5-PILE WELL PROTECTION/ BRAZOS PRODUCTION PLATFORM 2996 OFFSHORE PIPELINES INC. 11501	
PROJECT NO. 11501	SHEET NO. 105
DATE: FEB. 1, 1991	DRAWN BY: [Name]
CHECKED BY: [Name]	APPROVED BY: [Name]

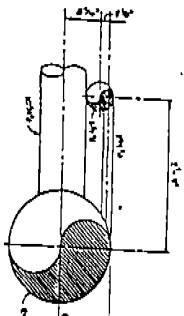
ALL MEMBERS 2 1/2" x 4 1/2" CHANNELS, FINISH AT ELEVATION 105.2'  
 HORIZONTAL FRAMING PLAN AT ELEVATION 105.2'  
 SCALE 1/8" = 1'-0"



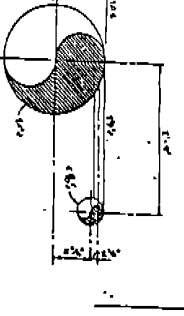
STAIR BASE - A DETAIL  
 SCALE 1/4" = 1'-0"



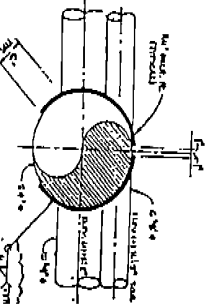
SECTION  
 SCALE 1/4" = 1'-0"



SECTION  
 SCALE 1/4" = 1'-0"



DOUBLE-RIGID DETAIL  
 SCALE 1/4" = 1'-0"



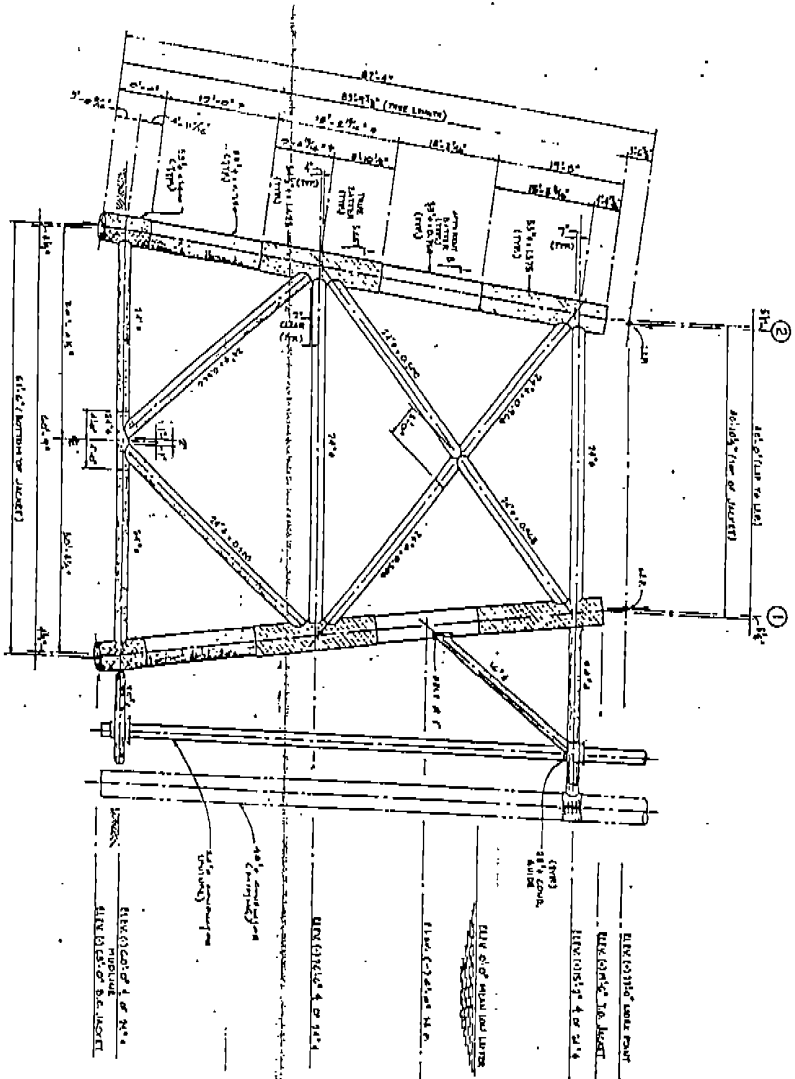
NOTES:  
 1. SET OFF, SET, etc.  
 2. FINISH AS SHOWN UNLESS NOTED OTHERWISE.



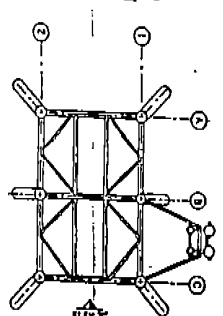
**BEYALL ENERGY E&P INC.**  
 TECHNICAL ENGINEERING CONSULTANTS

**BEST AVAILABLE COPY FEB 11 1991**

NO.	DATE	DESCRIPTION	BY	CHECKED
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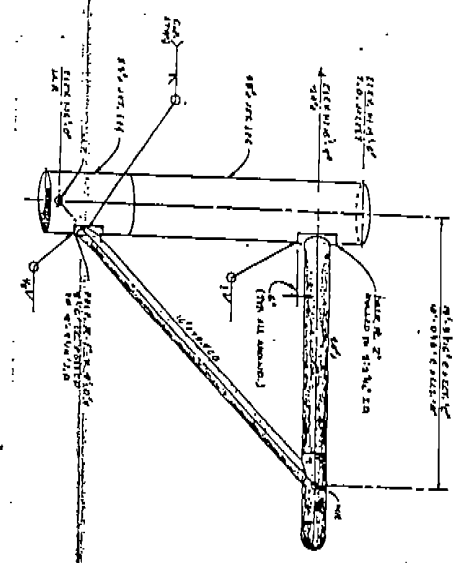


ELEVATION ROW 'C'  
SCALE = 1/8" = 1'-0"



KEY PLAN  
SCALE = 1/8" = 1'-0"

ELEV. TO 111'0" ABOVE GRADE  
 USE GRADE TO ADJUST  
 ELEV. TO 105'1" & 9'11"  
 (111'0" - 5'9")  
 (111'0" - 11'9")  
 ELEV. TO 111'0" ABOVE GRADE  
 USE GRADE TO ADJUST  
 ELEV. TO 105'1" & 9'11"  
 (111'0" - 5'9")  
 (111'0" - 11'9")



SECTION  
 SECTION A-A SHOWN  
 SECTION B-B OPR.  
 SCALE = 1/4" = 1'-0"

NOTES:  
 1. SEE NOTES ON SHEET 001.

BEST AVAILABLE COPY

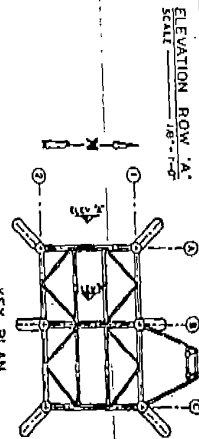
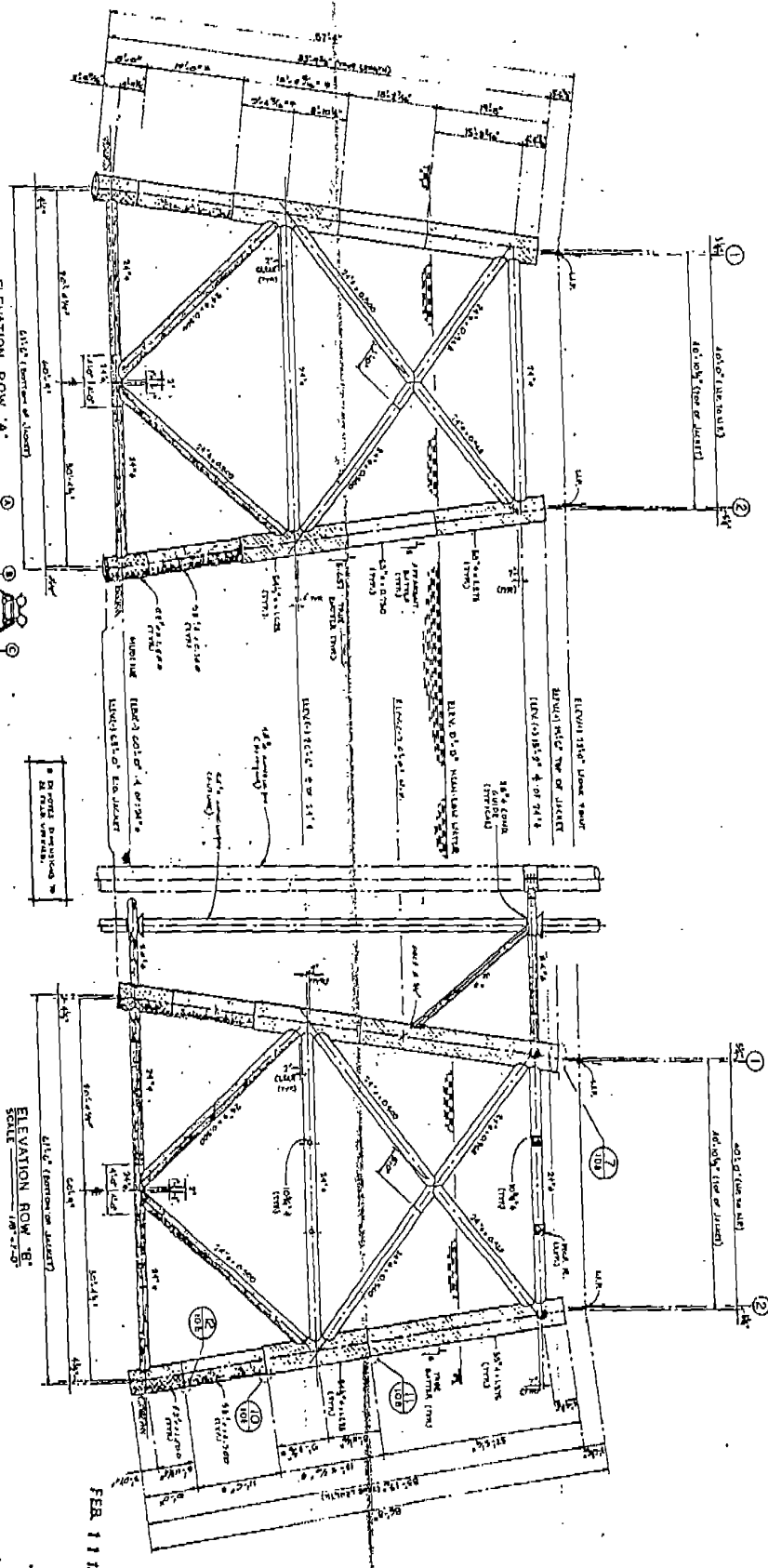
FEB. 1 1981

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DATE	BY	CHECKED	APPROVED

**PECO** TECHNICAL ENGINEERING CONSULTANT  
 PILE WELLS  
 BRAZOS  
 OFFSHORE PIPELINES INC.



ELEVATION ROW 'B'  
SCALE 1/8" = 1'-0"

ELEVATION ROW 'A'  
SCALE 1/8" = 1'-0"



REVISION	DATE	BY	CHKD	DESCRIPTION

**SEAROLL ENERGY E&P INC.**

**TECHNICAL DRAWING CONSULTANTS**

**PROJECT:** 6-PILE WELL PROTECTOR BRACED PRODUCTION PLATFORM BLOCK 299 E JACKET LIFTWIND ROWS 'A' AND 'B' OFFSHORE PIPELINES INSTALLATION

**DATE:** 02/11/2021

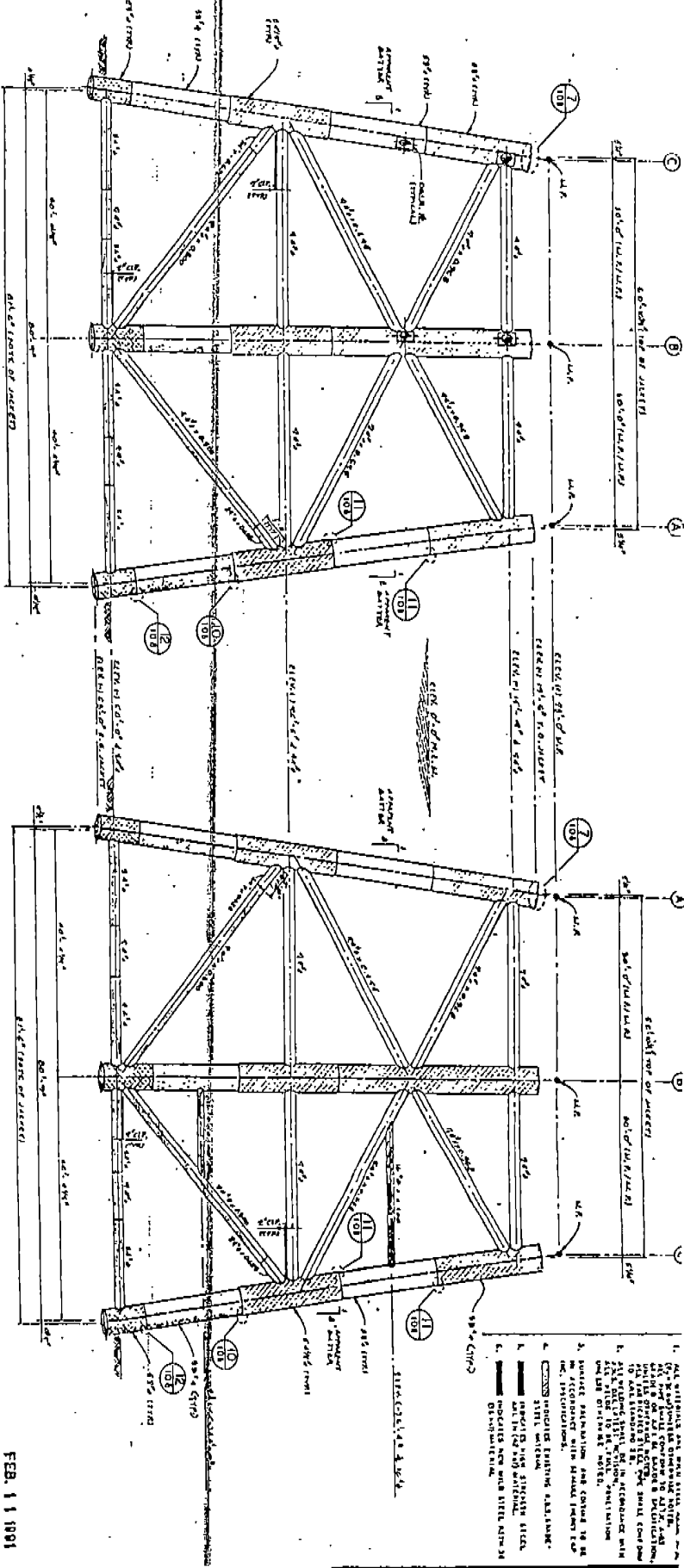
**SCALE:** 1/8" = 1'-0"

**PROJECT NO.:** 102

NOTES:  
CHECK NOTES ON SHEET 1001.

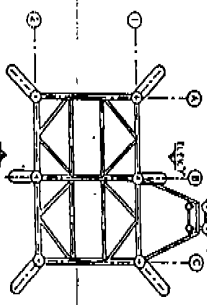
FEB 11 2021





ELEVATION ROW 1  
SCALE 1/8" = 1'-0"

ELEVATION ROW 2  
SCALE 1/8" = 1'-0"



KEY PLAN  
SCALE 1/8" = 1'-0"

1. ALL DIMENSIONS ARE WITH UNLESS OTHERWISE SPECIFIED.
2. ALL DIMENSIONS ARE WITH UNLESS OTHERWISE SPECIFIED.
3. ALL DIMENSIONS ARE WITH UNLESS OTHERWISE SPECIFIED.
4. ALL DIMENSIONS ARE WITH UNLESS OTHERWISE SPECIFIED.
5. ALL DIMENSIONS ARE WITH UNLESS OTHERWISE SPECIFIED.
6. ALL DIMENSIONS ARE WITH UNLESS OTHERWISE SPECIFIED.

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BEAULL ENERGY E&P INC.

TECHNICAL DOK-GEORG CONSULTANTS

6-8-81 MELT PROJECTION  
BRAYCE BLOCK 299  
JACKET ELEVATION ROW 1 & 2  
OFFSHORE PIPELINES INC. 11501



FEB. 11 1981

APPENDIX B

NMFS OR NOAA FISHERIES CORRESPONDENCE



UNITED STATES DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration  
NATIONAL MARINE FISHERIES SERVICE  
Washington, D.C. 20235

JUL 25 1988

Mr. William D. Bettenberg  
Director  
Minerals Management Service  
U.S. Department of the Interior  
Washington, D.C. 20240

Dear Mr. Bettenberg:

Enclosed is the Biological opinion prepared by the National Marine Fisheries Service (NMFS) pursuant to Section 7 of the Endangered Species Act (ESA) concerning potential impacts on endangered and threatened species associated with removal of certain oil and gas platforms and related structures in the Gulf of Mexico (GOM) using explosives.

This "standard" consultation covers only those removal operations that meet specified criteria pertaining to the size of explosive charge used, detonation depth, and number of blasts per structural grouping. Consultation must be initiated on a case-by-case basis for all dismantling operations requiring the use of explosives that do not meet the established criteria.

NMFS concludes that structure removals in the GOM that fall within the established criteria are not likely to jeopardize the continued existence of listed species under the jurisdiction of NMFS. However, in our opinion that, the proposed activities may result in the injury or mortality of endangered and threatened sea turtles. Therefore, pursuant to Section 7 (b) (4) of the ESA, we have established a low level of incidental take, which is cumulative for all removals covered by this consultation, and terms and conditions necessary to minimize and monitor any impacts, should they occur. The terms and conditions are contained in the enclosed incidental take statement. Also enclosed is a list of pending consultations that meet, with noted exceptions, the criteria established in the "standard" consultation. This biological opinion and the mitigating measures and terms and conditions contained in the related incidental take statement apply to those proposed removal operations. Therefore, formal consultation is concluded for these proposed actions.

25 Years Stimulating America's Progress ☆ 1913 - 1988

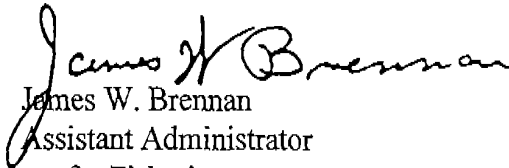


Note: Document printed from a digital reproduction of a copy of the original document

Consultation must be reinitiated if: (1) the amount or extent of taking specified in the incidental take statement is exceeded; (2) new information reveals impacts of the proposed activities that may affect listed species in a manner or to an extent not considered thus far in our opinions; (3) the identified activities are modified in a manner that causes an adverse effect to listed species not previously considered or (4) a new species is listed or critical habitat is designated that may be affected by the project.

I look forward to your continued cooperation in future consultations.

Sincerely,

  
James W. Brennan  
Assistant Administrator  
for Fisheries

Enclosures

## Biological Opinion

Agency: Minerals Management Service, U.S. Department of the Interior

Activity: Consultation for Removal of Certain Outer Continental Shelf  
Oil and Gas Structures in the Gulf of Mexico

Consultation Conducted By: National Marine Fisheries Service (NMFS)

Date Issued: July 25, 1988

### Background Information:

In a letter dated November 19, 1986, the Minerals Management Service (MMS) made an initial request for formal consultation pursuant to Section 7 of the Endangered Species Act (ESA) for the removal of an offshore oil and gas platform located in the Federal waters of the Gulf of Mexico (GOM). MMS and NMFS determined that removal of oil and gas platforms and related structures in the GOM may affect endangered and threatened marine species. This "may affect" determination was based on a possible relationship between endangered and threatened sea turtle mortalities and the dismantling of platforms using explosives. On November 25, 1986, NMFS issued the first of a series of biological opinions addressing, in detail, the potential impacts to listed marine species that may occur as a result of OCS abandonment activities.

MMS and NMFS established procedures for expediting Section 7 consultations on platform abandonment activities in the GOM referred to as "expedited consultations." Following those procedures, approximately 44 consultations have been completed for removal operations in the GOM region. All of the consultations have concluded that the proposed abandonment activities were not likely to jeopardize the continued existence of any listed species, but that the proposed activities may result in the incidental taking of endangered and threatened sea turtles.

The dismantling of platforms and related structures using explosives has evolved to a point where a "standard" protocol can be established for removal operations meeting certain criteria. Based upon removal techniques developed and reviewed in conjunction with the previously conducted "expedited consultations," MMS has requested, by letter of May 24, 1988, a "generic consultation" that would be applicable to all future removal operations that fall within a distinct category, defined by specific parameters. A category has been designed to include those structure types and removal techniques most commonly encountered during the expedited consultations and dismantling operations already completed. Since approximately 1000 structures that may be scheduled for future removal fall within the parameters of the established category, NMFS agrees that a "generic" consultation is appropriate at this time. The objective of the consultation is to reduce the administrative burden on both MMS and NMFS for conducting repetitive consultations on activities that may result in similar impacts to listed species and that require identical mitigating measures to maintain adequate protection for such species. This biological opinion responds to MMS' May 24, 1988, consultation request. The opinion is based on the best scientific and commercial data presently available and incorporates information from: 1) previous MMS Summary Evaluations, 2) previous NMFS biological opinions on platform removal, 3) the scientific literature, and 4) other pertinent and available information. Consultation must be reinitiated if new information becomes available concerning impacts to listed species that would alter the conclusions reached in this opinion or require modification of the measures identified in the attached incidental take statement. Consultation will continue on a case-by-case basis for those structure removals that do not meet the criteria established for "standard" removals.

#### Description of Proposed Action:

The proposed action involves the removal by explosive means, of offshore oil and gas structures located in Federal waters in the Gulf of Mexico. Removal of the structures will be accomplished by severing the support pilings, caissons, wall conductors, etc., using varying amounts of explosives to permit salvage of the structures. This involves the placement of explosives inside or outside of supporting structures and detonating charges primarily using electronically controlled signals.

This "generic" consultation considers only those removal operations that meet certain criteria pertaining to the size of the explosive charge used, detonation depths, and number of blasts per structural grouping. The specific criteria established to cover such removals are as follows:

1) Use of high velocity explosives (detonation rate greater than 7,600 meters/second).

2) A maximum of eight individual blast per group of detonations with charges staggered at an interval of 0.9 seconds (900 milliseconds).

3) Charges must be set at a minimum depth of 15 feet below the sediment surface. Severing of structures above the sediment surface "open water" must be accomplished by mechanical (nonexplosive) methods.

4) The maximum amount of explosives per detonation is not to exceed 50 pounds.

Species Occurring in the Project Area:

Listed species under the jurisdiction of NMFS that may occur in the project area:

<u>COMMON NAME</u>	<u>SCIENTIFIC NAME</u>	<u>STATUS</u>	<u>LISTED</u>
right whale	<u>Eubalaena glacialis</u>	E	6/2/70
finback whale	<u>Balaenoptera physalus</u>	E	6/2/70
humpback whale	<u>Megaptera novaeangliae</u>	E	6/2/70
sei whale	<u>Balaenoptera borealis</u>	E	6/2/70
sperm whale	<u>Physeter catodon</u>	E	6/2/70
green turtle	<u>Chelonia mydas</u>	Th E*	7/28/78
Kemp's ridley turtle	<u>Lepidochelys kempi</u>	E	12/2/70
leatherback turtle	<u>Dermochelys coriacea</u>	E	6/2/70
loggerhead turtle	<u>Caretta caretta</u>	Th	7/28/78
hawksbill turtle	<u>Eretmochelys imbricata</u>	E	6/2/70

\*All of the U.S. green turtle populations are listed as threatened except the Florida breeding population, which is listed as endangered.

No critical habitat has been designated in the project area for the above species.

#### Assessment of Impacts:

Based upon their known distribution and abundance in the GOM, endangered whales are believed unlikely to occur in the vicinity of the proposed structure removal activities, and, therefore, unlikely to be adversely affected by the proposed action.

Previous NMFS biological opinions (November 25, 1986 and February 26, 1987) have addressed, in detail, removal of structures in the GOM. Accounts of endangered and threatened species which occur in the project area, and the "Assessment of Impacts" contained in these prior opinions also apply to this consultation and are incorporated by reference.

In summary, the opinions referenced above acknowledge the existence of a possible relationship between the use of underwater explosives in removing platforms and related structures and the occurrence of stranded sea turtles, marine mammals (Tursiops truncatus) and fish. Limited experiments conducted by NMFS, Galveston Laboratory confirm that sea turtles (and other marine vertebrates) found in proximity to petroleum platforms can be injured or killed by removal operations employing underwater explosives (Klima, 1986).

Technology most commonly used in the dismantling of platforms includes: bulk explosives, shaped explosive charges, mechanical and abrasive cutters and underwater arc cutters. The use of bulk explosives has become the industry's standard procedure for severing pilings, well conductors and related supporting structures (approx. 90% use). When using bulk charges, the inside of the structure can be jetted out to at least 15 feet below the sediment floor to allow placement of explosives inside of the structure, resulting in a decrease in the impulse and pressure forces released into the water column upon detonation. The use of high velocity shaped charges is reported to have some advantages over bulk explosives and has been used in combination with smaller bulk charges. The cutting action obtained by a shaped charge is accomplished by focusing the explosive energy with a conical metallic liner. A major advantage associated with use of high velocity shaped charges is that a smaller amount of explosive charge is required to sever the structure, which also results in reductions in the impulse and pressure forces released into the water column. Use of mechanical cutters and underwater arc cutters is successful in some circumstances and do not produce the impulse and pressure forces associated with detonation of explosives, however, these methods are, in most instances, more time consuming, costly and more hazardous to divers. As a result, these methods are not used on a routine basis (MMS Report on Platform Removal Techniques).



Based upon data obtained during previously conducted "expedited" consultations on platform removals, the following is a comparison of the types of explosives most likely to be used in the proposed removal operations:

<u>Explosive</u>	<u>Detonating Velocity</u>	<u>Brisance*</u>
RDX	approx. 8,199 m/sec.	1.35
C-4	approx. 8,001 m/sec.	1.15
Comp. -B	approx. 7,803 m/sec.	1.32

\* Brisance is the measure of shattering power as compared to TNT which has brisance of 1.00. (MMS Report on Platform Removal Techniques, 1986.)

The proposed removal operations will be accomplished using high velocity explosives. Use of this type of explosive charge should minimize the duration of the impulse and pressure forces produced by detonation of the charges, while providing the amount of force required to sever the structures. According to MMS, restricting the grouping of detonations to eight individual blasts per group and staggering blasts by 0.9 seconds (900 milliseconds) will minimize the area affected by the blasts and suppress phasing of shock waves, thereby decreasing the cumulative effects of the blasts. In addition, since all detonations will occur at least 15 feet below the sediment surface and no more than 50 pounds of explosives per blast will be permitted, the amount of residual energy released into the marine environment should be reduced significantly. As a result, NMFS believes that minimal shock and impulse forces will be released in the vicinity of removal operations at any given time.

To date, of approximately 44 previously conducted consultations covering abandonment activities, about 33 structure removals have been completed. Each removal operation was monitored by NMFS observers and was conducted using appropriate mitigating measures. At the present time, eight turtles have been sighted in areas near structures being dismantled, at least two of which were green turtles. Of the eight documented sightings, one turtle was reported to be floating on it's back near a platform after detonation of Charges, apparently stunned or injured. No other incidents of sea turtle injury or mortality have been reported. Therefore, NMFS believes that the proposed actions are not likely to result in significant adverse impacts to endangered and threatened sea turtle populations.

### Conclusions:

Based on the above, it is our opinion that removal of platforms and related structures in the GOM is not likely to jeopardize the continued existence of threatened and endangered species under the jurisdiction of NMFS. However, NMFS concludes that the proposed activities may result in the injury or mortality of loggerhead, Kemp's ridley, green, hawksbill, and leatherback turtles. Therefore, pursuant to Section 7 (b) (4) of the ESA, we have established a low level of incidental take and terms and conditions necessary to minimize and monitor this impact. Compliance with these terms and conditions is the responsibility of MMS and the permit applicant.

### Reinitiation Of Consultation:

Consultation must be reinitiated if: 1) the amount or extent of taking specified in the incidental take statement is met or exceeded; 2) new information reveals impacts of the project that may affect listed species in a manner or to an extent not considered in this opinion; 3) the identified activities are modified in a manner that causes an adverse effect on listed species not previously considered; or 4) a new species is listed or critical habitat in designated that may be affected by the proposed activities.

## INCIDENTAL TAKE STATEMENT

Section 7(b) (4) of the Endangered Species Act requires that when a proposed agency action is found to be consistent with section 7 (a) (2) of the Act and the proposed actions may incidentally take individuals of listed species, NMFS will issue a statement that specifies the impact (amount or extent) of such incidental taking. Incidental taking by the Federal agency or applicant that complies with the specified terms and conditions of this statement is authorized and exempt from the taking prohibitions of the ESA.

Based on stranding records, incidental captures aboard commercial shrimp vessels and historical data, five species of sea turtles are known to occur in northern Gulf of Mexico waters. Current available information on the relationship between sea turtle mortality and the use of high-velocity explosives to remove oil platforms indicates that injury and/or death of sea turtles may result from the proposed actions. Therefore, pursuant to Section 7 (b) (4) of the ESA, an incidental take (by injury or mortality) level of one documented Kemp's ridley, green, hawksbill or leatherback turtle or ten loggerhead turtles is set for all removal operations conducted under the terms and conditions of this incidental take statement. The level of taking specified here is cumulative for all removals covered by this consultation. If the incidental take meets or exceeds this specified level, MMS must reinitiate consultation. The Southeast Region, NMFS, will cooperate with MMS in the review of the incident to determine the need for developing further mitigation measures.

The reasonable and prudent measures that NMFS believes are necessary to minimize the impact of incidental takings have been discussed with MMS and will be incorporated in the removal design for "standard" structure removals. The following terms and conditions are established for these removals to implement the identified mitigation measures and to document the incidental take should such take occur:

- 1) Qualified observer(s), as approved by NMFS, must be used to monitor the area around the site prior to, during and after detonation of charges. Observer coverage will begin 48 hours prior to detonation of charges. If sea turtles are observed in the vicinity of the platform and thought to be resident at the site, pre- and post- detonation diver surveys must be conducted.

2) On days that blasting operations occur, a 30-minute aerial survey must be conducted within one hour before and one hour after each blasting episode. The NMFS-approved observer and/or NMFS on-site personnel (NMFS employee only) must be used to check for the presence of turtles and, if possible, to identify species. If weather conditions (fog, excessive winds, etc.) make it impossible to conduct aerial surveys, blasting activities may be allowed to proceed if approved by the NMFS and/or MMS personnel on-site.

3) If sea turtles are observed in the vicinity of the platform (within 1000 yards of the site) prior to detonating charges, blasting will be delayed until attempts are successful in removing them at least 1000 yards from the blast site. The aerial survey must be repeated prior to resuming detonation of charges.

4) Detonation of explosives will occur no sooner than 1 hour following sunrise and no later than 1 hour prior to sunset. However, if it is determined by NMFS and/or MMS on-site personnel that special circumstances justify a modification of these time restrictions and that such modification is not likely to adversely impact listed species, blasting may be allowed to proceed outside of this time frame.

5) During all diving operations (working dives as required in the course of the removals), divers will be instructed to scan the subsurface areas surrounding the platform (blasting) sites for turtles and marine mammals. Any sightings must be reported to the NMFS or MMS on-site personnel. Upon completion of blasting, divers must report and attempt to recover any sighted injured or dead sea turtles or marine mammals.

6) Charges must be staggered 0.9 seconds (900 milliseconds) for each group of structures, to minimize the cumulative effects of the blasts. If a removal operation involves multiple groupings of structures, the interval between detonation of charges for each group should be minimized to avoid the "chumming" effect. Whenever such intervals exceed 90-minutes, the aerial survey must be repeated.

7) The use of scare charges should be avoided to minimize the "chumming effect." Use of scare charges may be allowed only if approved by the NMFS and/or MMS on-site personnel.

8) A report summarizing the results of the removal and mitigation measures must be submitted to the MMS Gulf of Mexico Region within 15 working days of the removal. A copy of the report must be forwarded to NMFS, Southeast Region.

This incidental take statement applies only to endangered and threatened sea turtles. In order to allow an incidental take of a marine mammal species, the taking must be authorized under Section 101 (a) (5) of the Marine Mammal Protection Act of 1972. Although interest has been expressed in obtaining an exception authorizing a limited take of dolphins incidental to abandonment activities, no marine mammal take is authorized until appropriate small take regulations are in place and related "Letters of Authorization" are issued.

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<u>#</u>	<u>Operator</u>	<u>Lease Area</u>	<u>Block</u>	<u>Structure</u>
40	Mobil Exploration and Producing Company U.S. Inc. "	Eugene Island Vermilion	354 182	A A
41	Kerr-McGee Corporation	Ship Shoal	296	A
42	Conoco Inc. "	Ship Shoal Vermilion	206 242	A A
43	Mobil Exploration and Producing Company U.S. Inc. "	West Cameron West Cameron	132 101	1 C
44	Tenneco Oil Exploration and Production	East Cameron	255	F
45*	Mobil Exploration and Producing Company U.S. Inc. " " (heliport) Except capped and plugged wells "A" & "B" in Vermilion -76-B	Eugene Island Vermilion "	199 76 "	C B "
46	Mobil Exploration and Producing Company U.S. Inc.	Vermilion	76	1
47	Samaden Oil Corporation	Galveston	241	A
48	Conoco In. " "	Grand Isle " "	63 54 47	A 3 6
49	Mobil Exploration and Producing Company U.S. Inc.	Main Pass	91	2
50	Mobil Exploration and Producing Company U.S. Inc.	South Pelto	12	D
51	Exxon Company " " "	West Delta " " "	30 " 31 "	5 V 1 W
52	Conoco Inc.	West Delta	45	R-1

53	Mobil Exploration and Producing Company U.S. Inc. "	West Cameron South Marsh	71 235	A 9
54	Tenneco Oil Exploration and Production	Ship Shoal	199	E
56*	Conoco Inc.	West Cameron	135	A
	"	East Cameron	47	D
	"	S. Marsh, W. Ad.	261	A
	Except West Cameron-261-A			
57*	Exxon Company U.S.A. Except High Island East Addition-A342-A	High Is., E. Ad.	A-342	B
58	BHP Petroleum	High Island	A-507	A
59	Mobil Exploration and Producing Company U.S. Inc.	East Cameron	14	5
60	FMP Operating Company	West Cameron	464	A
61	Amoco Production Company	S. Marsh Island	33	A

\* Consultations whose numbers include an asterisk (\*) did not totally fall under the parameters of this "standard" consultation, therefore, only those removals meeting the parameters are approved and further consultation will be necessary for the exceptions.