Mobil Exploration & Producing U.S. Inc.'s proposal to remove Platform B in the subject block has been reviewed. Our SEA for the subject action(s) is complete and results in a Finding of No Significant Impact. This Finding is conditioned on the imposition of the following mitigative measure(s) to ensure environmental protection, consistent environmental policy, and safety as required by the National Environmental Policy Act, as amended. This Finding is valid only insofar as the conditions are imposed.

1. The operator will comply with the terms of the Incidental Take Statement in the NMFS generic Biological Opinion of July 25, 1988.

2. Our analysis indicates that there are existing pipelines located within 150 meters (490 feet) of the proposed activities. These pipelines may pose a hazard to the proposed operations. Precautions in accordance with NTL 83-3, Section IV.B, must be taken prior to performing the proposed operations.

3. The Magnuson-Stevens Fisheries Conservation and Management Act, 50 CFR 622.31(a) prohibits the use of explosives to take reef fish in the Exclusive Economic Zone. Consequently, companies/contractors involved in explosive structure removals should not take such stunned or killed fish on board their vessels. Should this happen the company/contractor could be charged by the National Marine Fisheries Service with violation of the Act. If you have any questions, contact Mr. Robert Sadler with the National Marine Fisheries Service. His telephone number is (813) 570-5305.
The MMS has been informed through the Fishermen's Contingency Fund Office that there are no reported hang sites in West Cameron Area, Block 72.

Sgd.,
Jerry Brashier

Jerry Brashier

cc: 102-01a ENV 5-4b (MS 5440)
    Lease OCS 0245 POD File (MS 5032)
    Public Information (MS 5034)

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 REMOVAL

No. ES/SR 97-070

Structure-Removal Activities in
West Cameron Area, Block 72,
Lease OCS 0245

June 1997
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 REMOVAL(S)
No. 97-070

Assessment of the Environmental Impacts of the Proposal to remove Platform B in West Cameron Area, Block 72 (Lease OCS 0245) by Mobil Exploration & Producing U.S. Inc.

Date Submitted: March 24, 1997
Commencement Date: June 1997
Prepared by Richard T. Bennett
FINDING OF NO SIGNIFICANT IMPACT

I have considered the notification(s) by Mobil Exploration & Producing U.S. Inc., to remove Platform B West Cameron Area, Block 72, Lease OCS 0245, SEA No. ES/SR 97-070. Based on the environmental analyses contained in the site-specific environmental assessment, there is no evidence to indicate that the proposed action(s) will significantly (40 CFR 1508.27) affect the quality of the human environment if the permit(s)/application(s) is/are approved subject to the mitigative measure(s). Preparation of an environmental impact statement is not required.

Richard T. Bennett  
Analyst  
6/23/97  
Date

Jerry Brashear  
Chief, Environmental Operations  
Leasing and Environment  
Gulf of Mexico OCS Region  
6/23/97  
Date
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A. MOBIL EXPLORATION & PRODUCING U.S. INC. CORRES.

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TABLE 1 EXPLOSIVES PROPOSED BY MOBIL EXPLORATION & PRODUCING U.S. INC. FOR THE STRUCTURE REMOVAL(S) IN WEST CAMERON AREA, BLOCK 72, OCS 0245
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) (USDOI, 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(s) is necessary.

I. DESCRIPTION OF THE PROPOSED ACTION(S) AND NEED FOR THE PROPOSAL(S)

A. DESCRIPTION OF THE PROPOSAL(S) WITH MITIGATION

Mobil Exploration & Producing U.S. Inc. proposes to remove Platform B in West Cameron Area, Block 72, Lease OCS 0245. The structure is located at a water depth of 42 feet and lies approximately 18 miles south of Cameron, Louisiana. The operator plans to sever the legs/piles and conductors internally by explosives (bulk charges) and pulled out 16' below the mudline.

Refer to Appendix A and Table 1 for structure specifications, additional data on removal techniques, types and quantities of explosives to be used, and sequence of events.

MITIGATION

Refer to the operator's proposal(s) (Appendix A) for mitigative measure(s) proposed to reduce the likelihood of death or injury to sea turtles and marine mammals.

B. NEED FOR THE PROPOSED ACTION(S)

A discussion of the legal and regulatory mandates to remove abandoned oil and gas structures from Federal waters can be found in the PEA referenced in the Introduction. According to the operator, the existing wells have been depleted.
II. ALTERNATIVES TO THE PROPOSED ACTION(S)

Alternatives to the proposed structure removal(s) with mitigation originally submitted are:

A. NON-REMOVAL OF THE STRUCTURE(S)

The operator would not proceed with the proposed removal. This alternative would eliminate the possibility that sea turtles, marine mammals, or other marine life would be harmed by removal of the structure(s) as proposed. However, non-removal of the structure(s) 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 does not appear to be a valid alternative.

B. REMOVAL OF THE STRUCTURE(S) BY ALTERNATIVE NON-EXPLOSIVE METHODS

The MMS initially discussed various structure-removal techniques in the Final Environmental Impact Statement (FEIS) for Proposed Oil and Gas Lease Sales 118 and 122 (USDOI, MMS, 1988) and in the PEA referenced in the Introduction. Updated information is also found in the FEIS for Sales 157 and 161 (USDOI, MMS, 1995). 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 structure(s).

Refer to the FEIS (USDOI, MMS, 1988 and 1995) and PEA referenced in the Introduction for detailed information concerning alternative methods of structure removal.

C. REMOVAL OF THE STRUCTURE(S) 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) Biological Opinion of July 25, 1988, which addresses "standard" explosive structure removals in the GOM.

Refer to the terms and conditions of the "generic" Incidental Take Statement (Appendix B), and any mitigation identified by this SEA necessary to reduce the likelihood of death or injury to sea turtles and marine mammals.
In the course of this evaluation, the following protective measure(s) were identified to further mitigate the environmental impacts associated with the proposal(s). Appropriate regulations and procedures are believed sufficient to prevent significant adverse impacts.

Our analyses indicate that there is/are pipeline(s) located within 150 m (490 ft) of the proposed activities. The pipeline(s) may pose a hazard to the proposed operations. Precautions in accordance with NTL 83-3, Section IV.B, will be taken prior to performing the proposed operations.

The Magnuson-Stevens Fisheries Conservation and Management Act, 50 CFR 622.31(a) prohibits the use of explosives to take reef fish in the Exclusive Economic Zone. Consequently, companies/contractors involved in explosive structure removals should not take such stunned or killed fish on board their vessels. Should this happen the company/contractor could be charged by the National Marine Fisheries Service with violation of the Act. If you have any questions, contact the National Marine Fisheries Service at (813) 570-5305.

III. ENVIRONMENTAL EFFECTS, SOCIOECONOMIC CONCERNS, AND OTHER CONSIDERATIONS

A. PHYSICAL ENVIRONMENT

1. Environmental Geology and Geologic Hazards

A discussion of environmental geology and geologic hazards can be found in the PEA referenced in the Introduction. The proposed structure-removal activities are not in an area of sediment instability (mud flows, slumps, or slides). Therefore, geologic conditions are not expected to have an impact on the proposed structure-removal activities.

2. Meteorological Conditions

No impacts are expected as a result of the proposed activities. For analysis information, see the PEA referenced in the Introduction.

3. Physical and Chemical Oceanography

   a. Physical Oceanography

   No impacts are expected as a result of the proposed activities. For analysis information, see the PEA referenced in the Introduction.
b. Chemical Oceanography

Impacts are expected to be very low as a result of the proposed activities. For analysis information, see the PEA referenced in the Introduction.

4. Water Quality

Impacts are expected to be low as a result of the proposed activities. For analysis information, see the PEA referenced in the Introduction.

5. Air Quality

Impacts are expected to be very low as a result of the proposed activities. For analysis information, see the PEA referenced in the Introduction.

B. BIOLOGICAL ENVIRONMENT

1. Coastal Habitats

No impacts are expected as a result of the proposed activities. For analysis information, see the PEA referenced in the Introduction.

2. Protected, Endangered, and/or Threatened Species

a. Birds

The operator has indicated that helicopter flights and boat traffic would utilize a shorebase in Cameron, Louisiana. The PEA referenced in the Introduction delineates sensitive areas along the Texas coastline where whooping cranes and brown pelicans could be adversely impacted by structure-removal support activities. The proposed work is not expected to impact threatened or endangered birds or their habitats.

b. Marine Mammals

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 referenced in the introduction. 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 mammal to be encountered at the proposed structure-removal site(s). The MMS and/or NMFS observers may be utilized to look for marine mammals prior to detonation of the primary charge(s) at the removal site(s). If marine mammals are detected at the structure-removal site(s), detonation of the primary charge(s) would be delayed until the animals are removed from the area.
The NMFS issued final regulations amending 50 CFR part 228 (60 FR 197, October 12, 1995, pp. 53139-53147) for the incidental take of bottlenose (Tursiops truncatus) and spotted dolphins (Stenella frontalis and S. attenuata) by U.S. citizens holding a Letter of Authorization (LOA) 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 13 November 1995 through 13 November 2000.

Please refer to the Federal Register of October 12, 1995 for the description of the specific activity and specific geographical 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(s) undetected and could be injured or killed by the underwater, subsurface detonation(s). Such an occurrence is considered highly unlikely and with the indicated protective mitigation measures, the proposed structure-removal activities are expected to have only a low impact on marine mammals.

c. Sea Turtles

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 referenced in the Introduction. 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(s) during explosive operations is scarce. The NMFS and/or MMS observers will be utilized to look for sea turtles prior to detonation of the primary charge(s). If sea turtles are detected at the structure-removal site(s), detonation of the primary charge(s) will be delayed until the animals are removed from the area. As in the case of marine mammals, the possibility exists that sea turtles could enter the blast area(s) undetected and could be injured or killed by the underwater, subsurface detonation(s). However, with the indicated protective mitigation measure(s), the proposed structure-removal activities are expected to have only a low impact on sea turtles. A cumulative incidental take has been authorized by the NMFS for this category action, but with all the precautions to be taken as mitigating measures, it is unlikely that any sea turtles will be affected by these proposed operations.

3. Birds

Impacts are expected to be very low as a result of the proposed activities. For analysis information, see the PEA referenced in the Introduction.
4. Sensitive Marine Habitats

A discussion of sensitive marine habitats occurring in the central and western GOM and an assessment of the potential impacts of structure-removal activities on these areas can be found in the PEA referenced in the Introduction. The proposed activities are not near any sensitive marine habitats. Therefore, the subject structure-removal activities will not impact any sensitive marine habitats or their resident biota.

5. Offshore Habitats and Biota

Impacts are expected to be low as a result of the proposed activities. For analysis information, see the PEA referenced in the Introduction.

C. SOCIOECONOMIC CONCERNS

1. Employment

Impacts are expected to be very low as a result of the proposed activities. For analysis information, see the PEA referenced in the Introduction.

2. Economics

Impacts are expected to be very low as a result of the proposed activities. For analysis information, see the PEA referenced in the Introduction.

3. Onshore Support Facilities, Land Use, and Coastal Communities and Services.

The operator has indicated that Cameron, Louisiana would be the shore base for the proposed structure-removal activities. No impacts are expected as a result of the proposed activities. For analysis information, see the PEA referenced in the Introduction.

D. OTHER CONSIDERATIONS

1. Commercial and Recreational Fisheries

a. Commercial Fisheries

For analysis information, see the PEA referenced in the Introduction. 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 the 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.

The MMS 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. The MMS 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.

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

b. Recreational Fisheries

Impacts are expected to be low as a result of the proposed activities. For analysis information, see the PEA referenced in the Introduction. See the preceding section for a discussion of fish kills in association with explosive structure removals.

2. Archaeological Resources

Impacts are expected to be low as a result of the proposed activities. For analysis information, see the PEA referenced in the Introduction.

3. Military Use/Warning Areas and Explosive Dumping Areas

The proposed structure-removal activities will not take place in a military use/warning area or in an explosive dumping area. A description of these areas, their locations and potential impacts of structure-removal activities on these areas can be found in the PEA referenced in the Introduction.

4. Navigation and Shipping

The proposed structure-removal activities are not located adjacent to a vessel safety fairway or anchorage. Structures located nearshore may serve as "landmarks" to vessels or helicopter operating in the area on a regular basis. The overall impacts of the proposed work on navigation and shipping are expected to be very low. More information on the impacts of structure removals on navigation and shipping can be found in the PEA referenced in the Introduction.
5. Pipelines and Cables

The PEA referenced in the Introduction contains a description of the impacts of structure-removal activities on pipelines and cables. There is/are existing pipeline(s) within 150 m (490 ft) of the proposed structure-removal activities. Since the operator must adhere to existing laws and regulations for abandonment of structures (including procedures required by Notice to Lessees and Operators No. 83-3), the proposed work will not pose a hazard to pipeline(s) and cable(s) in the area(s).

6. Other Mineral Resources

No impacts are expected as a result of the proposed activities. For analysis information, see the PEA referenced in the Introduction.

7. Human Health and Safety

The PEA referenced in the Introduction describes the hazardous conditions for workers during removal activities. The operator has proposed the use of explosives in conjunction with the structure-removal activities. Existing legal and regulatory safety requirements will keep the impacts of the proposed work on human health and safety at a very low level.

E. UNAVOIDABLE ADVERSE IMPACTS

A discussion of unavoidable adverse impacts can be found in the PEA referenced in the Introduction. 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. This issue has been previously discussed in this document. 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 referenced in the Introduction. No public comments have been received regarding the proposed structure-removal operations.

In May 1991, the GOM Fishery Management Council requested that the 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.
The MMS believes that current data on the effects of explosive removals on fish mortality is 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, the MMS initiated an interagency study with the NMFS to determine fish mortalities from removal operations. In addition to the above study, the 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 on July 25, 1988, which established a category of "standard" explosive structure-removal operations. Their comments are included in Appendix B. The NMFS 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 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 would be prohibited unless they successfully apply for and obtain a Letter of Authorization to do so from the NMFS.
VI. BIBLIOGRAPHY AND SPECIAL REFERENCE(S)


TABLE 1
EXPLOSIVES PROPOSED BY
MOBIL EXPLORATION & PRODUCING U.S. INC.
FOR THE STRUCTURE REMOVAL(S) IN
WEST CAMERON AREA, BLOCK 72, OCS 0245

Type of Explosives:
Composition B or HMX

Number and Size of Charges:
One hundred and thirteen (113) 30# charges, 1 per leg/pile and eight (8) 50# charges, one per
well casing with one backup for each explosive

Employment of Charges:
inside, 16‘ minimum below the mudline

Sequence of Detonation:
Multiple Shots with a 1 second delay between shots, with no more than 8 shots per group
VII. PREPARERS

Author:

Richard T. Bennett, Biologist

Secretary:

Elaine Clark
VIII. APPENDICES

A. Mobil Exploration & Producing U.S. Inc. CORRESPONDENCE

B. NMFS CORRESPONDENCE
APPENDIX A

MOBIL EXPLORATION & PRODUCING U.S. INC. CORRESPONDENCE
March 24, 1997

To: Chief, Environment Operations Section, Leasing and Environment, Gulf of Mexico OCS Region (MS 5440)

From: Chief, Office of Structural and Technical Support, Field Operations, Gulf of Mexico OCS Region (MS 5210)

Subject: Platform Removal

Operator: Mobil

Control No: 97-070

PLATFORM AREA/BLOCK LEASE
B WE 72 OCS 0245

Shore Base: Cameron, LA

The attached application is forwarded to your office so that the Finding of No Significant Impact can be prepared. We believe this proposed activity meets the requirements of the generic Endangered Species Act Section 8 Consultation Document. There are no existing pipeline(s) within 500 feet of the proposed removal location. Please verify if this removal is located in environmentally sensitive areas. Should you require additional information, please contact Mr. Arvind Shah at Extension 2894.

Mit. C.D. Water = 42 ft.

Arvind Shah
Felix Dylkrkopp

Enclosure

cc:

AShah:pgm:\wp51\FORMS\-50LBS 00015 REVISED 5/21/96
Mobil Exploration & Producing U.S. Inc.

U.S Department of Interior
Minerals Management Service
1201 Elmwood Park Boulevard
New Orleans, LA 70123-2394

Attention: Regional Supervisor-OSTS

BEST AVAILABLE COPY

March 18, 1997

Platform Salvage
West Cameron 72-B
OCS-0245
West Cameron 71 Field

Gentlemen:

Mobil Exploration and Producing U.S. Inc. (MEPUS), requests approval to salvage the subject platform. We plan to perform this salvage during the summer of 1997 beginning in June 1997.

Pertinent information related to the salvage operation is attached. Explosives will most likely be employed. Conventional methods are proposed with consideration given to the NMFS' efforts to eliminate the effects of explosives on endangered marine life. Consideration will be given to abrasive cutting techniques.

A site clearance verification plan in accordance with NTL 92-02 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 Karen Vanacor at (504)566-6070 or Mark Day at (504)566-5269.

Very truly yours,

Mark D. Day, P.E.
Staff Civil Engineer

Attachments

cc. WC 71-D
K. Vanacor
R. Ott
NMFS, 4700 Avenue U, Galveston, TX 77551
PROPOSED PLATFORM/STRUCTURE REMOVAL

I. Responsible Party

A. Lease Operator Name: Mobil Exploration & Producing United States Inc. As agent for Mobil Oil Exploration and Producing Southeast, Inc. (MOEPSI).

B. Address: 1250 Poydras Plaza
New Orleans, LA 70113

C. Contact Person (s) and Telephone number (s).
   Karen Vanacor (504) 566-6070
   Mark Day (504) 566-5269

D. Base of Operations: Mobil's Cameron Base
   Cameron, LA

II. Identification of Structure to be removed:

A. Platform Name: West Cameron 72-B
   OCS-0245
   Complex ID. #20122

B. Location (lease, area, block and coordinates):
   West Cameron 72
   OCS-0245
   X=1,420,262  Y=335,420

C. Date Installed (Year): 1949

D. Proposed date of removal (month/year): June 1997

E. Water Depth: 42 ft.

III. Description of Structure to be removed:

A. Configuration: 113-pile single deck level with wellhead access level below main deck

B. Size: Main deck dimension 87' x 165'
C. Number of Legs/Casings/Pilings

Platform legs: One hundred and thirteen (113) legs and piles
Well casings: Eight (8) well conductors

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

Platform legs:

Pilings: Appear to be 16" o.d. x 0.500 w.t.

Well (s):

B2 - 20" o.d. x 0.41" w.t.; 13.375" o.d. x 0.380" w.t.; 9.625" o.d. x 0.435" w.t.; 6.625" o.d. x 0.417" w.t.; 4.5" o.d. x 0.373 w.t.

B3 - 20" o.d. x 0.34" w.t.; 13.375" o.d. x 0.380" w.t.; 9.625" o.d. x 0.545" w.t.; 6.625" o.d. x 0.417" w.t.

B4 - 20" o.d. x 0.75" w.t.; 13.375" o.d. x 0.380" w.t.; 9.625" o.d. x 0.545" w.t.; 6.625" o.d. x 0.417" w.t.

B5 - 20" o.d. x 0.75" w.t.; 13.375" o.d. x 0.380" w.t.; 9.625" o.d. x 0.545" w.t.; 6.625" o.d. x 0.417" w.t.

B6 - 20" o.d. x 0.75" w.t.; 13.375" o.d. x 0.380" w.t.; 9.625" o.d. x 0.545" w.t.; 6.625" o.d. x 0.417" w.t.

B7 - 26" o.d. x 1" w.t.; 18.625" o.d. x .36"; 13.375" o.d. x 0.380" w.t.; 10.75" o.d. x 0.350" w.t.; 7" o.d. x 0.408" w.t.

B10 - 30" o.d. x 1" w.t.; 11.75" o.d. x 0.375" w.t.; 7.625" o.d. x 0.375" w.t.;

B11 - 30" o.d. x 1" w.t.; 11.75" o.d. x 0.375" w.t.; 7.625" o.d. x 0.375" w.t.;

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

F. Brief Description of Soil Composition and Condition:

0' to 24' Stiff brown and red clay,
-with silt partings, pockets, and seams to 11'
-very stiff below 5'
-olive gray and brown below 6'
-with sand pockets and seams below 11'
-with shell fragments, 12' to 18'
-with sand layers, 18' to 23'

IV. Purpose:

Brief description of the reason for removing the structure:

The wells on the platform have been depleted, thus the platform is no longer useful to the field operation.
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: Comp B or HMX explosives will be used.

2. Number and size of charges:

   Platform piles: One hundred and thirteen (113) bulk charges @ 30#/ea.
   Well casing(s): Eight (8) bulk charges @ 50#/ea.

   A. Single shots or multiple shots? Multiple

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

       Platform and well casing: The platform piles and well casings will be shot in multiple series involving 121 detonations. Each series will involve 8 shots with a one second delay between shots.

       Backup explosives of 30#/ea. will be on hand for all 113 jacket pilings and 50#/explosives will be on hand for each of the 8 wells.

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 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. If available, describe any recent observations of sea turtles or marine mammals at the structure site.

   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.
WEST CAMERON 71 FIELD
OCS 0245 WC72 B-3
PRESENT COMPLETION

20" 71# T&C CASING @ 455'

13 3/8" 54# J55
BRD T&C CASING @ 1946'

TOP OF 6 5/8" LINER @ 9756'

9 5/8" 43.5, 47, & 53.5#
N80 XL CASING @ 9926'

46 FB B SAND
PERFS: 11775-85 & SPF
SQUEEZED B-3
6 5/8" 28# N80 & PLT10
XL LINER @ 12145'

TOC @ 154' MLL (73' BML)
CASING PERFS @ 297-299'
CDP @ 300'
TUBING CUT @ 400'

TBG PERFS @ 3071'

2 3/8" OTIS S2 NIPPLE @ 8996'
(1.675" ID)

BEST AVAILABLE COPY

2 3/8" OTIS S1 NIPPLE @ 9467'
(1.675" ID)

QUIBERSON L-30 PACKER @ 11701'
END OF TUBING @ 11741'

TBTD @ 11826'
TD @ 13162'

00023

GER 04/27/94
WEST CAMERON 71 FIELD
OCS 0246 WC101 B-4
PRESENT COMPLETION

COMP FLD: 14.1% MUD
DEViated HOLE
AVG ANG 13 DEG
WATER DEPTH: 40'

20" DRIVE PIPE @ 453'

13 3/8" 54.5# T&C CASING @ 2008'
(CMT W/ 1900 CU. FT.)

TOP OF 6 5/8" LINER @ 9990'

9 5/8" 43, 47, & 53.5# N80
XL CASING @ 10175'
(CMT W/ 1200 CU. FT.)

BLOCK SQZ @ 11718-24' ELM
45X FB C SAND
SAND TOP: 11715' (8')
TESTED & SQUEEZED

BLOCK SQZ @ 11724-26' ELM

51 FB A-1 SAND
PERFS: 12126-32 12136-40'
12144-47 12151-64' ELM
8-4

BLOCK SQZ @ 12236-40' ELM
6 5/8" 28# P110 XL
LINER @ 12355'
(CMT W/ 1125 SXS)

TOC @ 150' MLL (110' BUL)

PERFS: 400-402', 4 SPF
BRIDGE PLUG @ 450'
TBG JET CUT @ 500'

2 3/8" 4.7# A-95 HYDRIL TUBING

2 3/8" OTIS S3 NIPPLE @ "013'
(1.675" ID)

2 3/8" OTIS S2 NIPPLE @ 7499'
(1.675" ID)

BEST AVAILABLE COPY

TOC @ 9940' MLL

2 3/8" OTIS J NIPPLE @ 12085'
(1.781" ID)

BAKER D PACKER @ 12086'
(3.00" BORE)(7" SEALS)

END OF TUBING @ 12098'

PBTD @ 12200'

BOTTOM OF CMT @ 12385'
TD @ 12990'

MUO 03/21/98
WEST CAMERON 71 FIELD
OCS 0245 WC72 B-1
PRESENT COMPLETION

26" DRIVE PIPE

18 5/8' @ 410'

13 3/8' 54.5 TAC @ 2010'

SOUTRACKED AS B-7

CEMENT PLUG @ 1712' (400 SACKS)

WELL SOUTRACKED @ 2095'

9 5/8' CASING BACKED-OFF @ 2210'

50 SAND

PERFS: 11672-88' @ 6 SPF
TESTED & SQUEEZED

9 5/8' 55.2/47.0/43.5 N80 XL @ 1220'

54 FB D

PERFS: 12256-75' @ 6 SPF
B-1

92 FB L

SAND TOP: 13798' (10')

7" 32# P110 XL @ 12098-15500'

BEST AVAILABLE COPY
WEST CAMERON 71 FIELD
OCS 0244 WC71 B-11
PRESENT COMPLETION

ELEVATION: (RKB-MWL) 74'
(RKB-MFH) 47'
WATER DEPTH: 40'
COMP FLD: 8.5# SEA WATER
- DEMATED HOLE
KOP @ 3155'
MAX ANG 15 DEG

30" DRIVE PIPE @ 150'
11 3/4" 47# K55 BHD, STAC, & BUTTRESS CASING @ 3155'

47 FB D SAND
PERFS: 11465-72' ELM
B-11:E

51 FB D SAND
PERFS: 11887-95' ELM
B-11:D

53/53A FB D SAND
PERFS: 12206-294'
12348-352' ELM
B-11:B

55 FB D SAND
PERFS: 12605-607'
12626-636' ELM
B-11

2 3/8" 4.7# N80 ARMCO NU-LOCK TUBING (BOTH STRINGS)

TOP OF CEMENT @ 140' WM
PERFS: 400-402', 8 SPF
SS TBG CUT @ 490'
LS TBG CUT @ 500'
2 3/8" OTIS "G" G/L VALVE ON "G"
PACK-OFF @ 3250' WM (SS)
2 3/8" OTIS S4 NIPPLE @ 5000' (LS)
(1.875" ID) W/ OTIS DS PLUG
2 3/8" OTIS S4 NIPPLE @ 5500' (SS)
TBG PERFS @ 10450-86', 4 SPF
TOC INLS @ 10524'
BOT HYD PACKER @ 11350'
ADJUSTABLE UNION
SAFETY SHEAR JOINT (SS)
TBG PERFS @ 11400-86', 4 SPF
TOC IN SS @ -11210'
2 3/8" OTIS XA SLEEVE @ 11460' (SS)
(OPEN)
1/2" THICK BLAST JOINT (LS)
1/4" THICK BLAST JOINT (SS)
SAND IN TUBING @ 11475' WM (SS)
TOC IN LS @ 11547' WM
2 3/8" OTIS S3 NIPPLE @ 11609' (LS)
2 3/8" OTIS S3 NIPPLE @ 11609' (SS)
BOT HYD PACKER @ 11600'
2 3/8" OTIS S2 NIPPLE @ 11615' (SS)
(1.875" ID) (PS PLUG INSTALLED)
RUBBER COATED BLAST JOINT
(1/2" COATING) (25' LONG)
2 3/8" OTIS S2 NIPPLE @ 11999' (LS)
(1.875" ID)
BOT BD PACKER @ 12000'
(3.25" BORE) (6" SEALS)

BEST AVAILABLE COPY

BOT BD PACKER @ 12540'
(3.25" BORE)
2 3/8" OTIS N NIPPLE @ 12544'
(1.791" ID) (PN PLUG INSTALLED)
WIRELINE RE-ENTRY GUIDE

PBTD @ 12700'
TD @ 13160'
West Cameron 72-B
113-Pile S/C Drilling Platfor

Structure Number: 461
Lease Number: OCS-0245
Water Depth: 42
Year Installed: 1949
To: Chief, Environment Operations Section, Leasing and Environment, Gulf of Mexico OCS Region (MS 5440)

From: Chief, Office of Structural and Technical Support, Field Operations, Gulf of Mexico OCS Region (MS 5210)

Subject: Platform Removal

Operator: Mobil

Control No: 97-070

PLATFORM | AREA/BLOCK | LEASE
---------|-----------|------
B        | WC 72     | OCS 0245

Shore Base: Cameron, LA

The attached application is forwarded to your office so that the Finding of No Significant Impact can be prepared. We believe this proposed activity meets the requirements of the generic Endangered Species Act Section 8 Consultation Document. There are no existing pipeline(s) within 500 feet of the proposed removal location. Please verify if this removal is located in environmentally sensitive areas. Should you require additional information, please contact Mr. Arvind Shah at Extension 2894.

Felix Dyhrkopp

Enclosure

cc: AShah:pgm:wp51\FORMS\-50LBS 00032

REVISED 5/21/96
APPENDIX B

NMFS CORRESPONDENCE
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, it is 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 these proposed removal operations. Therefore, formal consultation is concluded for these proposed actions.
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


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: 

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," NMFS 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, well 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 blasts 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 (non-explosive) 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:

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

*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:

<table>
<thead>
<tr>
<th>Explosive</th>
<th>Detonating Velocity</th>
<th>Brisance*</th>
</tr>
</thead>
<tbody>
<tr>
<td>RDX</td>
<td>approx. 8,199 m/sec.</td>
<td>1.15</td>
</tr>
<tr>
<td>C-4</td>
<td>approx. 8,001 m/sec.</td>
<td>1.15</td>
</tr>
<tr>
<td>Comp.-B</td>
<td>approx. 7,803 m/sec.</td>
<td>1.32</td>
</tr>
</tbody>
</table>

* Brisance is a 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 its 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 NMFS and the permit applicant.

Reinitation of Consultation:

Consultation must be reinitated 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 is 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 minimise 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 minimise 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.
REFERENCES


<table>
<thead>
<tr>
<th>#</th>
<th>Operator</th>
<th>Lease Area</th>
<th>Block</th>
<th>Structure</th>
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</thead>
<tbody>
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* 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.