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 No. 01-052 & 01-053

Assessment of the Environmental Impacts
of the Proposals to Remove
Platform # 2 in Ship Shoal Area, Block 86, Lease OCS-G 03580, and
Platform H in West Delta Area, Block 31, Lease OCS 00016
by
ExxonMobil Production

Date Submitted: June 7, 2001
Commencement Date: August 1, 2001

Prepared by
Warren J. Barton
Environmental Scientist
ExxonMobil Production's applications to use explosives to remove Platform #2 in Ship Shoal Area, Block 86, OCS-G 03580, and Platform H in West Delta Area, Block 31, OCS 00016 have been reviewed. Our SEA, ES/SR 01-052, 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 recommended to ensure environmental protection, consistent environmental policy and safety as required by the National Environmental Policy Act, 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 effects of their actions upon the quality of the human environment.
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 is necessary.

I. DESCRIPTION AND NEED FOR THE PROPOSED ACTION

ExxonMobil Production proposes to use explosives to remove Platform #2 in Ship Shoal Area, Block 86, Lease OCS-G 03580, and Platform H in West Delta Area, Block 31, OCS 00016. The structures are located at water depths of 22 and 49 feet, respectively. Platform #2 is located 10 miles southwest of Terrebonne Parish, Louisiana, and 68 miles west-southwest of Grand Isle, Louisiana. Platform H is located 7 miles south-southeast of Plaquemines Parish, Louisiana, and 20 miles east-southeast of Grand Isle, Louisiana. The operator will explosively sever the Platform #2 caisson and the Platform H piles 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 referenced in the Introduction. According to the operator, The wells depleted the reserves.

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 does not appear to be a valid 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 (USDOI, MMS, 1988) and in the PEA referenced in the Introduction. Updated information is also found in the FEIS for Sales 169, 172, 175, 178, and 182 (USDOI, MMS, 1997) and the FEIS for Sales 171, 174, 177, and 180 (USDOI, 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.

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 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) Biological Opinion of July 25, 1988, which addresses "standard" explosive structure removals in the GOM.

Measures that ExxonMobil Production 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 Programmatic Environmental Assessment mentioned in the Introduction.

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 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.
The Magnuson Fisheries Management Act, 50 CFR 641.22(a) 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 any questions, contact the National Marine Fisheries Service at (813) 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 referenced in the Introduction. 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 referenced in the Introduction. 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. Since the operator will use a shore base in Grand Isle, 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 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. Minerals Management Service and/or NMFS 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.

Due to the expiration of Subpart M of the Marine Mammal Protection Act
(MMPA) on November 13, 2000, operators and contractors can no longer obtain Letters
of Authorization from the NMFS for the incidental take of bottlenose and spotted
dolphins. As a reporting requirement of Subpart M, five years of summarized, NMFS
observer data concludes that there were no reported marine mammal injuries or
mortalities as a result of explosive removals in the GOM (Gitschlag 2000). Although not
a substitute for take authorization, the NMFS and this office agrees that strict adherence
to the Incidental Take Statement in the "Generic" Biological Opinion (Appendix B)
should provide reasonable protection for both turtles and marine mammals until new
MMPA regulations are promulgated by our agencies.

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 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
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 charges. If sea turtles are
detected at the structure-removal sites, detonation of the primary charges 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 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. NMFS 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.

BEST AVAILABLE COPY
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 referenced in the Introduction.

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.

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 antidotal 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 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 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 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 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 will be prohibited unless they successfully apply for and obtain a Letter of Authorization to do so from the NMFS.
VI. BIBLIOGRAPHY AND SPECIAL REFERENCES


BEST AVAILABLE COPY
VII. PREPARER

Author: Warren J. Barton - Environmental Scientist
VIII. APPENDICES

A. EXXONMOBIL PRODUCTION CORRESPONDENCE

B. NMFS CORRESPONDENCE
APPENDIX A

EXXONMOBIL PRODUCTION CORRESPONDENCE
<50 lb.

UNITED STATES GOVERNMENT
MEMORANDUM

June 5, 96

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: Exxon

Control No: 01-052, 053

PLATF O R M  AREA/BLOCK  LEASE
#2  S586  OCS-63580
H3  WD31-Bangske  OCS 016

Shore Base: Grand Isle, 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.

5.86 mi SW Terrebonne Parish
68 mi WSW Grand Isle

Felix Dyhrkopp

Enclosure

cc:

AShah:pgm:wp5i\FORMS-50LBS

REVISED 6/21/96
June 1, 2001

Platform Removal Application
Ship Shoal Block 86, Structure No. 2
Lease OCS-G 3580, Complex ID 20446

Mr. Donald C. Howard
Regional Supervisor, Field Operations
Minerals Management Service
1201 Elmwood Park Boulevard, MS 5210
New Orleans, LA 70123-2394

Attention: Mr. Arvind Shah, MS 5210

Dear Mr. Howard,

In accordance 30 CFR 250.913, ExxonMobil Production Company, as agent for Mobil Oil Exploration and Producing Southeast Inc., herein submits for approval an application for the removal of the above referenced structure. Enclosed are the Platform Data sheets for the structure to be removed. ExxonMobil intends to remove this structure between June 1, and August 31, 2001. Decommissioning is planned to commence in May of 2001. The explosives use plan complies with the generic Section 7 guidelines of the Endangered Species Act.

The site clearance verifications will be performed in accordance with NTL 98-26; a detail site clearance plan will be filed when a contractor is selected.

Please contact Steve Ledet at (504) 561-4824 if you have any questions or require additional information regarding this application.

Sincerely,

EXXON MOBIL CORPORATION

By: T. S. Brooks
ExxonMobil Company, U.S.A.
(a division of Exxon Mobil Corporation)

Enclosures
c: S. J. Ledet
L. Richards (w/ enclosures)
Fld. Supt.
PL-1 (w/ enclosures)
### Proposed OCS Platform/Structural Removal

20-Apr-01

**Lease Operator:** EXXONMOBIL  
**Platform Name:** Ship Shoal 86 #2

#### I. Responsible Party

<table>
<thead>
<tr>
<th>A. Lease Operator Name</th>
<th>EXXONMOBIL</th>
</tr>
</thead>
</table>
| B. Address            | 1555 Poydras Street  
                           | New Orleans, LA 70112 United States |
| C. Contact Person     | Nick Odinet  
                           | Phone: 713-865-8240  
                           | Fax: 713-895-6270  
                           | E-Mail: nick@winmarconsulting.com |
| D. Shorebase          | Grand Isle, La |

#### II. Identification of Structure to be Removed

| A. Platform Name | Ship Shoal 86 #2 |
| Complex ID: |
| B. Location     | SS 86 |
| Lease:          | OCS-G-3580 |
| X Coordinates   | 2097435  
                           | Latitude: 28.929 |
| Y Coordinates   | 95388  
                           | Longitude: -91.029 |
| C. Date Installed | 1967 |
| D. Proposed Removal Date | 01-Aug-01 |
| E. Water Depth  | 22 |

#### III. Description of Structure to be Removed

| A. Configuration | Caisson |
| B. Size          | Deck: 11 x 17  
                           | Top of Jacket:  
                           | Bottom of Jacket: |
| C. Number of legs/piles/conductors |
| Legs: |
| Piles: |
| Conductors: 1 |
Proposed OCS Platform/Structural Removal

20-Apr-01

Lease Operator: EXXONMOBIL
Platform Name: Ship Shoal 86 #2

III. Description of Structure to be Removed (continued)

D. Diameter and wall thickness of legs/pilings/conductors

<table>
<thead>
<tr>
<th>Diameter</th>
<th>Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pile</td>
<td></td>
</tr>
<tr>
<td>Conductor</td>
<td>30</td>
</tr>
<tr>
<td>Wellbore</td>
<td>30</td>
</tr>
</tbody>
</table>

E. Are piles grouted? No

Notes:

F. Brief description of Soil Composition and condition: Soft to medium gray clay

IV. Purpose

Reason for Removal: Reserves are depleted.

V. Removal Method

A. Description of Removal:
The inner strings will be severed during p&a. The caisson will be severed by explosives. The structure will be removed with a crane vessel and sent to shore for disposal.

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

1. Type of Explosive: Composition B

2. Number and size of charges:

<table>
<thead>
<tr>
<th>Charge Size</th>
<th>Number of Charges</th>
</tr>
</thead>
<tbody>
<tr>
<td>Piles:</td>
<td></td>
</tr>
<tr>
<td>Conductor:</td>
<td>50# Bulk</td>
</tr>
</tbody>
</table>

Procedures:
Explosives to be detonated in a group with a 0.9 second delay between detonations.

All charges are to be detonated 20' below the mudline; if the severing is incomplete on first attempt a second charge will be detonated 16' below the mudline.
V. Removal Method (continued)

C. Pre-removal monitoring techniques:
   1. Scare Charges or Acoustic Devices: No
   2. Predetonation Survey: 48 hour pre detonation survey for marine mammals and sea turtles to be conducted by NMFS observers. A 30 minute aerial survey will be performed immediately prior to detonation of the charges.

Note:

D. Post-removal monitoring techniques:
   1. Transducers: No
   2. Post Detonation Survey: Immediately after detonation, a 30 minute aerial survey will be performed. NMFS observers will collect samples of any marine life killed by the explosives.

VI. Biological Information

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Post Diver Survey:</td>
<td>No</td>
</tr>
<tr>
<td>Biological Survey:</td>
<td>No</td>
</tr>
<tr>
<td>Sea Turtle Sightings:</td>
<td>No</td>
</tr>
</tbody>
</table>
June 1, 2001

Platform Removal Application
West Delta Block 31, Platform H
Lease OCS 016, Complex ID 20146

Mr. Donald C. Howard
Regional Supervisor, Field Operations
Minerals Management Service
1201 Elmwood Park Boulevard, MS 5210
New Orleans, LA 70123-2394

Attention: Mr. Arvind Shah, MS 5210

Dear Mr. Howard,

In accordance 30 CFR 250.913, ExxonMobil Production Company herein submits for approval an application for the removal of the above referenced structure. Enclosed are the Platform Data sheets for the structure to be removed. ExxonMobil intends to remove this structure between June 1, and August 31, 2001. Decommissioning is planned to commence in May of 2001. The explosives use plan complies with the generic Section 7 guidelines of the Endangered Species Act.

The site clearance verifications will be performed in accordance with NTL 98-26; a detail site clearance plan will be filed when a contractor is selected.

Please contact Steve Ledet at (504) 561-4824 if you have any questions or require additional information regarding this application.

Sincerely

EXXON MOBIL CORPORATION

By: [Signature]
T. S. Brooks
ExxonMobil Company, U.S.A.
(a division of Exxon Mobil Corporation)

Enclosures
c: S.J. Ledet
L. Richards (w/ enclosures)
Fld. Supt.
PL-1 (w/ enclosures)
Proposed OCS Platform/Structural Removal

Lease Operator: EXXONMOBIL
Platform Name: West Delta 31-H

21-Apr-01

I. Responsible Party

A. Lease Operator Name: EXXONMOBIL

B. Address:
   1555 Poydras Street
   New Orleans, LA 70112 United States

C. Contact Person: Nick Odinet
   Phone: 713-895-8240
   Fax: 713-895-8270
   E-Mail: nick@winmarconsulting.com

D. Shorebase: Grand Isle, La.

II. Identification of Structure to be Removed

A. Platform Name: West Delta 31-H
   Complex ID: 20146

B. Location: WD31
   Lease: OCS-G-0016
   X Coordinates: 2532522
   Y Coordinates: 181112
   Latitude: 29.154
   Longitude: -89.665

C. Date Installed: 1955

D. Proposed Removal Date: 01-Aug-01

E. Water Depth: 49

III. Description of Structure to be Removed

A. Configuration: 16-pile with 4 strut support piles.

B. Size
   Deck: 80 x 90
   Top of Jacket: 70 x 70
   Bottom of Jacket: 70 x 70

C. Number of legs/piles/conductors
   Legs: 16
   Piles: 20
   Conductors: 4
Proposed OCS Platform/Structural Removal

Lease Operator: EXXONMOBIL
Platform Name: West Delta 31-H

21-Apr-01

III. Description of Structure to be Removed (continued)

D. Diameter and wall thickness of legs/pilings/conductors

<table>
<thead>
<tr>
<th>Diameter</th>
<th>Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pile: 14&quot; and 30&quot;</td>
<td>.75&quot;</td>
</tr>
</tbody>
</table>

Conductor: See attached table

Wellbore:

E. Are piles grouted? No

Notes:

F. Brief description of Soil Composition and condition: Soft to medium gray clay

IV. Purpose

Reason for Removal: Reserves are depleted.

V. Removal Method

A. Description of Removal: The piles and conductors will be severed with explosives. The structure will be removed with a derrick barge and sent to shore.

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

1. Type of Explosive: Composition B

2. Number and size of charges:

<table>
<thead>
<tr>
<th>Charge Size</th>
<th>Number of Charges</th>
</tr>
</thead>
<tbody>
<tr>
<td>Piles: 50# Bulk</td>
<td>20</td>
</tr>
<tr>
<td>Conductor: 50# Bulk</td>
<td>4</td>
</tr>
</tbody>
</table>

Procedures:

Detonated in a 8 shot group with a 0.9 sec delay between shots, 1min delay between groups.

All charges are to be detonated 20' below the mudline, if the severing is incomplete on first attempt a second charge will be detonated 15' below the mudline.
V. Removal Method (continued)

C. Pre-removal monitoring techniques:

1. Scare Charges or Acoustic Devices: No

2. Predetonation Survey: 48 hour pre detonation survey for marine mammals and sea turtles to be conducted by NMFS observers. A 30 minute aerial survey will be performed immediately prior to detonation of the charges.

Note: If charges fail to cut on first attempt (~20 feet), new charges will be detonated at 15 feet below mudline.

D. Post-removal monitoring techniques:

1. Transducers: No

2. Post Detonation Survey: Immediately after detonation, a 30 minute aerial survey will be performed. NMFS observers will collect samples of any marine life killed by the explosives.

VI. Biological Information

<table>
<thead>
<tr>
<th>Post Diver Survey:</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biological Survey:</td>
<td>No</td>
</tr>
<tr>
<td>Sea Turtle Sightings:</td>
<td>No</td>
</tr>
</tbody>
</table>
**EXXONMOBIL**

**WEST DELTA 30 H**

**CONDUCTOR MAKE UP**

<table>
<thead>
<tr>
<th>Conductor</th>
<th>Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Empty Drive pipe</td>
<td>20 in</td>
</tr>
<tr>
<td>H-2</td>
<td>26&quot;/20&quot;/13.375/9.625</td>
</tr>
<tr>
<td>H-16</td>
<td>26&quot;/13.375/9.625</td>
</tr>
<tr>
<td>H-17</td>
<td>26&quot;/20&quot;/13.375/9.625</td>
</tr>
</tbody>
</table>
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 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.

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,

[Signature]
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: 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.

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

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

<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 novaeanglia</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 rydas</td>
<td>Th E*</td>
<td>7/28/78</td>
</tr>
<tr>
<td>Kemp's ridley turtle</td>
<td>Lepidochelys kempi</td>
<td>E</td>
<td>12/2/70</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.

Note: Document printed from a digital reproduction of a copy of the original document.
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>1.35</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 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 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 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.

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

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

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


Note: Document printed from a digital reproduction of a copy of the original document
<table>
<thead>
<tr>
<th>#</th>
<th>Operator</th>
<th>Lease Area</th>
<th>Block</th>
<th>Structure</th>
</tr>
</thead>
<tbody>
<tr>
<td>40</td>
<td>Mobil Exploration and Producing Company U.S. Inc.</td>
<td>Eugene Island</td>
<td>354</td>
<td>A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Vermilion</td>
<td>182</td>
<td>A</td>
</tr>
<tr>
<td>41</td>
<td>Kerr-McGee Corporation</td>
<td>Ship Shoal</td>
<td>296</td>
<td>A</td>
</tr>
<tr>
<td>42</td>
<td>Conoco Inc.</td>
<td>Ship Shoal</td>
<td>206</td>
<td>A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Vermilion</td>
<td>242</td>
<td>A</td>
</tr>
<tr>
<td>43</td>
<td>Mobil Exploration and Producing Company U.S. Inc.</td>
<td>West Cameron</td>
<td>132</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>West Cameron</td>
<td>101</td>
<td>C</td>
</tr>
<tr>
<td>44</td>
<td>Tenneco Oil Exploration and Production</td>
<td>East Cameron</td>
<td>255</td>
<td>F</td>
</tr>
<tr>
<td>45*</td>
<td>Mobil Exploration and Producing Company U.S. Inc.</td>
<td>Eugene Island</td>
<td>199</td>
<td>C</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Vermilion</td>
<td>76</td>
<td>B</td>
</tr>
<tr>
<td></td>
<td>(heliport)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Except capped and plugged wells &quot;A&quot; &amp; &quot;B&quot; in Vermilion -76-B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>46</td>
<td>Mobil Exploration and Producing Company U.S. Inc.</td>
<td>Vermilion</td>
<td>76</td>
<td>1</td>
</tr>
<tr>
<td>47</td>
<td>Samaden Oil Corporation</td>
<td>Galveston</td>
<td>241</td>
<td>A</td>
</tr>
<tr>
<td>48</td>
<td>Conoco In.</td>
<td>Grand Isle</td>
<td>63</td>
<td>A</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>54</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>47</td>
<td>6</td>
</tr>
<tr>
<td>49</td>
<td>Mobil Exploration and Producing Company U.S. Inc.</td>
<td>Main Pass</td>
<td>91</td>
<td>2</td>
</tr>
<tr>
<td>50</td>
<td>Mobil Exploration and Producing Company U.S. Inc.</td>
<td>South Pelo</td>
<td>12</td>
<td>D</td>
</tr>
<tr>
<td>51</td>
<td>Exxon Company</td>
<td>West Delta</td>
<td>30</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>31</td>
<td>V</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>31</td>
<td>W</td>
</tr>
<tr>
<td>52</td>
<td>Conoco Inc.</td>
<td>West Delta</td>
<td>45</td>
<td>R-1</td>
</tr>
</tbody>
</table>

Note: Document printed from a digital reproduction of a copy of the original document.
<table>
<thead>
<tr>
<th></th>
<th>Company Name</th>
<th>Area</th>
<th>Number</th>
<th>Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>53</td>
<td>Mobil Exploration and Producing Company U.S. Inc.</td>
<td>West Cameron</td>
<td>71</td>
<td>A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>South Marsh</td>
<td>235</td>
<td>9</td>
</tr>
<tr>
<td>54</td>
<td>Tenneco Oil Exploration and Production</td>
<td>Ship Shoal</td>
<td>199</td>
<td>E</td>
</tr>
<tr>
<td>56*</td>
<td>Conoco Inc.</td>
<td>West Cameron</td>
<td>135</td>
<td>A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>East Cameron</td>
<td>47</td>
<td>D</td>
</tr>
<tr>
<td></td>
<td></td>
<td>S. Marsh, W. Ad.</td>
<td>261</td>
<td>A</td>
</tr>
<tr>
<td></td>
<td>Excerpt West Cameron-261-A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Excerpt High Island East Addition-A342-A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>58</td>
<td>BHP Petroleum</td>
<td>High Island</td>
<td>A-507</td>
<td>A</td>
</tr>
<tr>
<td>59</td>
<td>Mobil Exploration and Producing Company U.S. Inc.</td>
<td>East Cameron</td>
<td>14</td>
<td>5</td>
</tr>
<tr>
<td>60</td>
<td>FMP Operating Company</td>
<td>West Cameron</td>
<td>464</td>
<td>A</td>
</tr>
<tr>
<td>61</td>
<td>Amoco Production Company</td>
<td>S. Marsh Island</td>
<td>33</td>
<td>A</td>
</tr>
</tbody>
</table>

* 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.