# 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. ES/SR 92-16

Structure Removal Activities

South Timbalier Block 75

Lease OCS-G 8443

March 10, 1992



# UNITED STATES DEPARTMENT OF THE INTERIOR MINERALS MANAGEMEN' SERVICE Gulf of Mexico OCS Region New Orleans, Louisiana

#### FINAL

SITE-SPECIFIC ENVIRONMENTAL ASSESSMENT ENDANGERED SPECIES/STRUCTURE REMOVAL(S)

No. ES/SR 92-16

Assessment of the Environmental Impacts
of the Proposed Removal of Platform E
in South Timbalier Block 75
(Lease OCS-G 8443)
by CNG Producing Company

Date Submitted: February 24, 1992 Commencement Date: June 2, 1992

Prepared by Bonnie La Borde Johnson

#### TABLE OF CONTENTS

		P	AGE
FIND	ING OF	F NO SIGNIFICANT IMPACT	ii
INTR	DUCT	ION AND BACKGROUND	1
Ι.		RIPTION OF THE PROPOSAL(S) AND NEED FOR THE OSAL(S)	1
A.	DESC	RIPTION OF THE PROPOSED ACTION(S) WITH MITIGATION	1
В.	NEED	FOR THE PROPOSED ACTION(S)	1
II.	ALTE	RNATIVES TO THE PROPOSED ACTION(S)	2
A.	NONR	EMOVAL OF THE STRUCTURE(S)	2
В.	REMOV METHO	VAL OF THE STRUCTURE(S) BY ALTERNATIVE NON-EXPLOSIVE DDS	2
c.		VAL OF THE STRUCTURE(S) AS PROPOSED WITH ADDED GATION(S)	2
III.		RONMENTAL EFFECTS, SOCIGECONOMIC CONCERNS, AND R CONSIDERATIONS	3
A.	PHYS	ICAL ENVIRONMENT	3
	1.	Environmental Geology and Geologic Hazards	3
	2.	Meteorological Conditions	3
	3.	Physical and Chemical Oceanography a. Physical Oceanography b. Chemical Oceanography	3 3 3
	4.	Water Quality	3
	f.	Air Quality	4
В.	BIOL	OGICAL ENVIRONMENT	4
	1.	Coastal Habitats	4
	2.	Protected, Endangered, and/or Th.eatened Species a. Birds b. Marine Mammals c. Sea Turtles	4 4 4
	3.	Birds	5
	4.	Sensitive Marine Habitats	5

			PAGE
	5.	Offshore Habitats and Biota	5
c.	socio	DECONOMIC CONCERNS	6
	1.	Employment	6
	2.	Eccnomics	6
	3.	Onshore Support Facilities, Land Use, and Coastal Communities and Services	6
D.	OTHER	CONSIDERATIONS	6
	1.	Commercial and Recreational Fisheries a. Commercial Fisheries b. Recreational Fisheries	6 6 7
	2.	Archaeological Resources	7
	3.	Military Use/Warning Areas and Explosive Dumping Areas	7
	4.	Navigation and Shipping	7
	5.	Pipelines and Cables	7
	6.	Other Mineral Resources	8
	7.	Human Health and Safety	8
E.	UNAVO	DIDABLE ADVERSE IMPACTS	8
IV.	PUBL	IC OPINION	8
v.	CONS	ULTATION AND COORDINATION	9
VI.	BIL J	OGRAPHY AND SPECIAL REFERENCES	10
VII.	PREP	ARERS	12
VIII.	APPE	NDICES	13
	A.	CNG PRODUCING COMPANY	14
	В.	NMFS CORRESPONDENCE	31
TABLE	1 -	Explosives Proposed by the Operator for the Structure Removal in South Timbalier Block 75	11

#### FINDING OF NO SIGNIFICANT IMPACT

I have considered the notification by CNG Producing Company to remove Platform E in South Timbalier Block 75 (OCS-G 8443), SEA No. ES/SR 92-16. Based on the environmental analysis contained in the site-specific environmental assessment, there is no evidence to indicate that the proposed actions will significantly (40 CFR 1508.27) affect the quality of the human environment if the permit/application is approved subject to the mitigative measures. Preparation of an environmental impact statement is not required.

B

Regional Supervisor

Leasing and Environment Gulf of Mexico OCS Region 3/13/9

#### 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 Culf of Mexico 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 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(s) 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 PROPOSAL(S) AND NEED FOR THE PROPOSAL(S)
- A. DESCRIPTION OF THE PROPOSED ACTION(S) WITH MITIGATION

CNG proposes to remove Platform E in Block 75 (OCS-G 8443). The structure is located in a water depth of 65 feet and lies approximately 27 miles south of Terrebonne Parish, Louisiana. The operator plans to explosively sever and remove the piles and conductor. A mechanical cutter may be used on the 48-inch stub. See Table 1 for specific data regarding the explosive removal operations.

Refer to Appendix A for structure specifications for the removal(s), additional data on removal techniques, and sequence of events.

#### MITIGATION

Refer to the operator's proposal (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 (USDOI, MMS, 1987). According to CNG, the well and platform have no further use and a plugging and abandonment of the well is proposed. The platform will then be removed.

#### 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)

CNG would not proceed with the proposed removal(s). 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 of 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 has 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 the PEA (USDOI, MMS, 1937). Updated information is also found in the FEIS for Sales 123 and 125 (USDOI, MMS, 1989). It was concluded that the most effective methods of structure removal are the use of explosives, either bulk or shaped charges, 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 PEA (USDOI, MMS, 1987) 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 Gulf of Mexico (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, an additional protective measure was identified to further mitigate the environmental impacts associated with the proposal. Appropriate regulations and procedures are believed sufficient to prevent significant adverse impacts.

Our analysis indicates that there are existing pipeline(s) located within 150 meters (490 feet) of the proposed activities. The existing pipelines 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.

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 (USDOI, MMS, 1987). 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, s e 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 very 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 PEA (USDOI, MMS, 1987) delineates sensitive areas along the Texas coastline where whooping cranes and brown pelicans could be adversely impacted by structure-removal support activities. The operator has indicated that helicopter flights and boat traffic would utilize a shorebase ir Port Fourchon, Louisiana. No impacts on threatened or endangered birds and their habitats are expected.

#### b. Marine Mammals

A discussion of marine mammals occurring across the GOM and an assessment of the potential impacts of structure-removal activities on marine mammals can be found in the PEA (USDOI, MMS, 1987). Fritts, et al. (1982) conducted aerial surveys across a 9,514 square mile area of GOM waters. Results of these surveys indicate that the bottlenose dolphin is probably the most likely marine mammal to be encountered at the proposed structure removal(s). MMS 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(s). 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 measure(s), the proposed structure-removal activities are expe. ted 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 (USDOI, MMS, 1987). 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 and Martinez, 1990) indicate that sea tu tles occur in the vicinity of the proposed activities and therefore could be impacted by the structureremoval operations. Definitive information on the probability of encountering sea turtles at the removal site(s) during explosive operations is scarce. NMFS and/or MMS observers may be utilized to look for sea turtles prior to de onation 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(s). 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). This occurrence is considered unlikely, and 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 NMFS for this category actions, but with all the precautions to be taken as mitigating measure(s), 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 (USDOI, MMS, 1,87). 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 reference 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.

#### 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.

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

The operator has indicated that Port Fourchon, 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 Gulf of Mexico 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.

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. 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.

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.

#### 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

A description of military use/warning areas and explosive dumping areas, their locations and potential impacts of structure-removal activities on these areas can be found in the PEA (USDOI, MMS, 1987). The proposed structure-removal activities would not take place in any of these areas. No impacts are expected.

#### 4. Navigation and Shipping

The proposed structure-removal activities are not located adjacent to a vessel safety fairway or in an anchorage area. Structures located nearshore may serve as "landmarks" to vessels or nelicopter 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 (USDOI, MMS, 1987).

#### 5. Pipelines and Cables

The PEA (USDOI, MMS, 1987) contains a description of the impacts of structure-removal activities on pipelines and cables. There are existing pipelines within 150 meters (490 feet) 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 (USDOI, MMS, 1987) describes the hazardous conditions for workers during structure-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 (USDOI, MMS, 1987). 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 is considered to be low, further studies information about this issue should 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 (USDOI, MMS, 1987).

In May 1991, the Gulf of Mexico Fishery Management Council requested that the MMS place a moratorium over the explosive removal of offshore structures with three or more supports. Nonremoval 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 or 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 platform removal operations. In addition to the above study, MMS supports an active rigs-to-reef

program and encourages industry to search for method that will minimize effects on fish from platform removal operations.

#### V. CONSULTATION AND COURDINATION

In accordance with the provisions of Section 7 of the Endangered Species Act, the proposed structure-removal operations are covered by the Biological Opinion issued by 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 structureremoval 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 permit or waiver to do so from NMFS.

#### VI. BIBLIOGRAPHY AND SPECIAL REFERENCE(S)

Fritts, T.H.. A.B. Irvine, R.D. Jennings, L.A. Collum, W. Hoffman, and M.A. McGehee. 1983. Turtles, birds, and mammals in the northern Gulf of Mexico and nearby Atlantic waters. U.S. Fish and Wildlife Service, Division of Biological Services, Washington, D.C.

Fuller, D.A. and A.M. Tappan. 1986. The occurrence of sea turtles in Louisiana coastal waters. Coastal Fisheries Institute. Center for Wetland Resources. Louisiana State University. Baton Rouge, LA.

Teas, Wendy, G. and Anthony Martinez. 1990. 1989 third-quarter report of the sea turtle stranding and salvage network. Atlantic and Gulf Coasts of the United States. January - September 1989. National Marine Fisheries Service. Southeast Fisheries Center, Miami Laboratory, 75 Virginia Beach Drive, Miami, FL.

U.S. Department of the Interior. Minerals Management Service. 1989. Final Environmental Impact Statement. Gulf of Mexico Sales 123 and 125: Central and Western Planning Areas. OCS EIS/EA MMS 89-0053. Washington, D.C. Available from NTIS, Springfield, VA: PB-89234900/AS.

U.S. Department of the Interior. Minerals Management Service. 1988. Final Environmental Impact Statement. Proposed OCS oil and gas lease sales 118 and 122 (Central and Western Gulf of Mexico). OCS EIS/MMS 88-0044. Washington, D.C. Available from NTIS, Springfield, VA: PB89-114185/AS.

U.S. Department of the Interior. Minerals Management Service. 1987. Programmatic Environmental Assessment. Structure-removal activities Central and Western Gulf of Mexico Planning Areas. OCS/EA 87-0002. Gulf of Mexico OCS Region, New Orleans, LA.

#### Table 1

Explosives Proposed by the Operator for the Structure Removal in South Timbalier Block 75 (OCS-G 8443)

#### Type of Explosives:

Composition 4 (C4) using 50 grain primer cord explosives

#### Number and Size of Charges:

Five focused charges, one for each leg and one for the well conductor

#### Employment of Charges:

5 meters below the mud line

#### Sequencing of Detonation:

Multiple shots with a 0.9 second delay between detonations. The conductor will probably be done separately.

VII. PREPARERS

Author:

Bonnie La Borde Johnson - Physical Scientist

Typist:

Sandra Pavlas - Clerk Typist

#### VIII.APPENDICES

- A. CNG PRODUCING COMPANY CORRESPONDENCE
- B. NMFS CORRESPONDENCE

## APPENDIX A CNG PRODUCING COMPANY CORRESPONDENCE

#### Explasme - 50 16

14.42-16 Te 14500

UNITED STATES GOVERNMENT MEMORANDUM

2/26/92

To:

Environmental Operations Section (LE-5)

From:

Platform

Office of Structural and Technical Support, Field Operations,

Gulf of Mexico OCS Region (OSTS)

Subject: Platform Removal

RECEIVED

OFERATOR: CNG

FES 27 1992

Control No: ES/SR 92-16 mmerals Management Service

ST 75

Area/Block


CCS - G 8443

Shore Base: Port Fourchon, 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 7 Consultation Document. There are/example existing pipeline(s) within 500 feet of the proposed removal location.

Arvind Shah (OSTS)
Extension 2894

Enclosure

cc:

AShah: :LEXITYPE:Disk 5

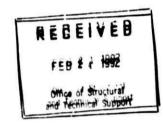
**CNG** Producing Company

February 21, 1992

U. S. Department of the Interior Minerals Management Service Gulf of Mexico OCS Region 1201 Elmwood Park Blvd. New Orleans, Louisiana 70123-2394

Attention:

Mr. Arwind Shar,



Reference: Platform Removal Application South Timbalier Block 75 "E"

OCS-G-8443 Lease

Dear Mr. Shar:

Enclosed is CNG Producing Company's application covering platform removal operations scheduled for OCS-G-8443 Lease, "E" Platform, South Timbalier Block 75 which we are resubmitting with the additional information which you requested.

Platform removal operations will be performed in the summer of 1992.

Should you have any questions concerning this application, please contact me at 593-7460.

Very truly yours,

CNG PRODUCING COMPANY

A. P. (Butch) Ventura, Sr. Construction Engineer

APV/ntd

cc: S. Richardson

T. Reeves

B. Ducote

Y. Abadie

ST75 "E" - Gov. Approvals File



I.	RESI	PONSIBLE PARTY
	A.	Lease Operator Name CNG PRODUCING COMPANY
	В.	Address CNG TOWER - 1450 POYDRAS STREET, NEW ORLEANS, 3
		Contact Person and Telephone Number <u>BUTCH VENTURA</u> R. CONSTRUCTION ENGINEER (504) 593-7460. STEVE RICHARDS V. SUPERVISOR CONSTRUCTION ENGINEERING (504) 593-7468
II.	IDEN	NTIFICATION OF STRUCTURE TO BE REMOVED
	A.	Platform Name <u>"E" PLATFORM</u>
	В.	Location (Lease, Area, Block and Block Coordinates) SOUTH TIMBAL ER
		BLOCK 75, OCS-G-8443 LEASE, X = 2.189,123.82' Y = 37,156.45'
	C.	Date I stalled (Year) 1988
	D.	Proposed Date of Removal (Month/Year) JUNF 2, 1992
	E.	Water Depth 65'
111.	DES	CRIPTION OF STRUCTURE TO BE REMOVED
	A.	Configuration (Attach a Photograph o: a Diagram)
	В.	Size 4 PILE
	C.	Number of Legs/Casings/Pilings 4 LEGS, 1 CONDUTOR
	D.	Diameter and Wall Thickness of Legs/Casings/Filings
		4 LEGS (35" X 1.5" WALL) 4 MAIN PILES (30" X 1.5" WALL) (1) CONDUCTOR
	E.	Are Piles Grouted? NO Inside or Outside?

	FIRM	COMPOSITION WITH RESPECT TO BORINGS IN 1988: 0' TO 155 M TO STIFF CLAY, 155 TO 317' GRAY FINE SAND317 TO -350 Y STIFF GRAY CLAY.
PUR	POSE	
Brief	Discus	ssion of the Reason For Removing the Structure
PLA	TFOR	M IS DEPLETED
REN	10VAI	<u>METHOD</u>
A.	Brief	Description of the Method to be Used
	PRU	IN PILES) 50 LBS. COMPOSITION 4 (C4) USING 50 GRAIN MER CORD AND 9 SECONF DELAY IN SERIES BETWEEN ONATIONS. CONDUCTOR REMOVAL WILL BE AS FOLLOWS VC OCTOL EXPLOSIVES, 30 DIAMETER 40 LDS. CHARGE METER 45 LDS. CHARGE 48" DIAMETER - 50 LBS. CHARGE CHEVER APPLIES FOR CONDUCTOR (See attached letter dated 2/25/92
В.	If ex	plosives are to be used, provide the following:
	1.	Kind of Explosives COMPOSITION 4 (C4)
	2.	Number and Size of Charges ONE (1) FIFTY (50) POUNT CHARGE EACH.
		a. Single Shot or Multiple Shots?MULΠPLE  b. If multiple shots, sequence and timing of detonation,9
		SECOND DELAY IN SERIES FOR LEGS. THE CONDUCTOR WILL PROBABLY BE DONE SEPARATELY.
	3.	Bulk or Shaped Charge? FOCUS DEVICE
		a. Depth of Detonation Below Mud Line <u>5 METERS</u>
		b. Inside or Outside Piling? <u>INSIDE</u>

Brief Description of So Composition and Conditions

F.

IV.

V.

C.	Pre-	Removal Monitoring Techniques
	1.	Is the use of scare charges or acoustic devices proposed? IF NEEDED

If ves, provide the following:

- a. Number and Kind EXTRA SAMLL CHARGES WILL BE ON BOARD. IF SURVEILLENCE BEING DOWN, EITHER UNDER OR ABOVE WATER PROVE NECESSARY, THEN SCARE CHARGES WILL BE USED.
- b. Size of Charges 5' OF 50 GRAIN/FT. PRIMER CORD
- c. Brief description of how, where, and when scare charges or acoustic devises will be used PER GUIDELINES OF ONBOARD SUPERVISORS
- Will divers or acoustic devices be used to conduct a pre-removal survey to detect presence of turtles and marine mammanls? <u>YES</u> If yes, briefly describe the proposed detection method.

I	)	V	Ε	RS	١.	N	LL	C	o	N	D	U	$\boldsymbol{C}$	Γ	A	V	1	SI	U,	A	L	S	U	R	٧	Έ	Y	

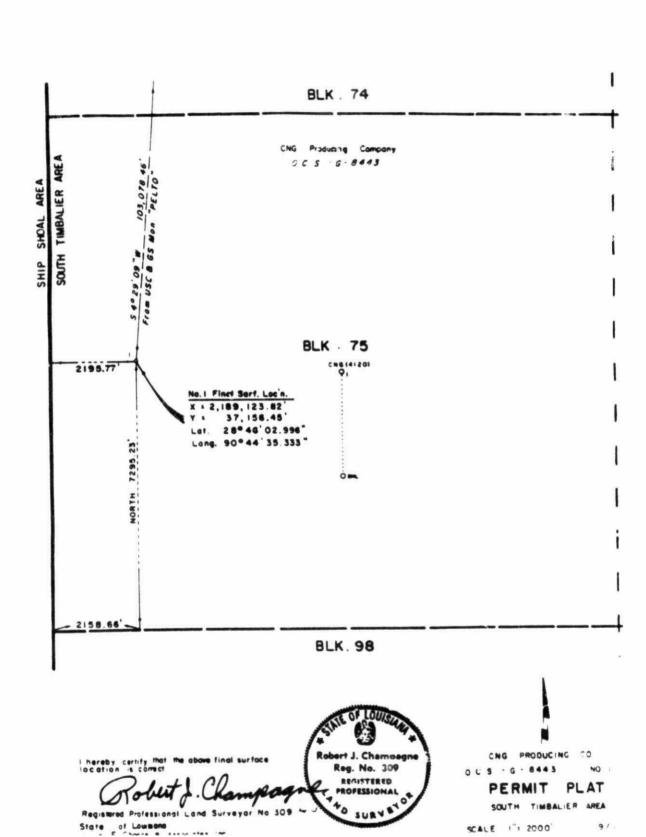
#### D. Post-Removal Monitoring Techniques

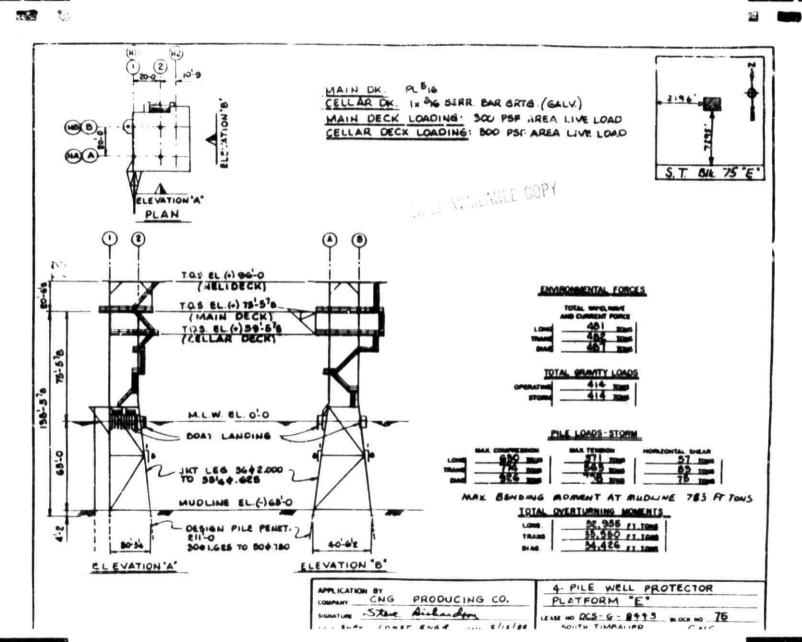
- Will transducers be used to measure the pressure and impulse of detonation? NO
- Will divers be used to survey the area after removal to determine any effects on marine life? YES: WILL SURVEY FOR DEBRIS

#### 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 observ ation of turtles or marine mammals at the structure site.

NO RECORDS OF TURTLE SIGHTINGS AT THIS LOCATION.





#### CNG PRODUCING COMPANY

#### SITE CLEARANCE VERIFICATION PLAN

#### SOUTH TIMB. 75 "E"

- CNGP shall, prior to platform removal, perform a high frequency (>500 kHz) sonar search of the entire area incorporated in a 1320' radius circle centered on the platform geometric center. The sonar device will be deployed by towing.
- Following platform removal CNGP will utilize a diving vessel equipped with a mezotech unit to recover any debris located on the above mentioned sonar search. In addition CNGP will perform a mezotech search of a 300' radius centered at the platform geometric center and recover an debris located. CNGP feels a 300' radius is sufficient due to the platform having a leg spacing at the mud line of only 30'.
- 3. Upon completion of diving operations CNGP shall trawl the site in accordance with MMS Regulation NTL NO. 90-30. CNGP has not chosen a trawling contractor. The trawling contractor CNGP chooses will meet all MMS specifications. The grid lines and net sizes will be determined when CNGP chooses a contractor and the net size and grid lines shall meet the requirements set forth in MMS Regulation NTL NO. 90-30 paragraph 2 Sec 4.
- CNGP will have a diving contractor standing by on a call out basis to assist in the trawling operations should this be necessary.
- 5. When clearing of the site is complete CNGP shall forward to the MMS all site clearance verifications required in regulation NTL NO. 90-30 paragraph 3.

3MB No 1010-0045 UNITED STATES (Expires July 31, 1986) 5. LEASE NO DEPARTMENT OF THE INTERIOR OCS-G-8443 MINERALS MANAGEMENT SERVICE 6. AREA & BLOCK SOL' 4 TIMBALIER BLOCK 75 SUNDRY NOTICES AND REPORTS ON WELLS 7. WELL NO. E-1 8. UNIT AGREEMENT (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use form MMS-331-C for such proposals.) SOUTH TIMBALIER PLOCK 75 FIELD all well [ ] gas well [X] other [ ] 2. NAME OF OPERATOR EXPLORATION [ ] CHG PRODUCING COMPANY DEVELOPMENT [X] 3. ADDRESS OF OPERATOR (where form is completed) CNG TOWER - 1450 POYDRAS STREET, NEW ORLEANS, LA 70112-6000 11. ADJACENT STATE LOUISIANA 4. LOCATION OF WELL (Report location in accordance with instructions and Item 16.) 12. ACT NO. AT SURFACE: 2195.77' FUL & 7295.23' FSL OF SOUTH TIMBALIER 75 177 -54067600SC1 AT TOP P- 30. INTERVAL: 2214.26' FUL & 7164.48' Fal OF ST 75 13. ELEVATIONS AT TOTAL DEPTH: 2266.24' FML & 7031.54' FSL OF SOUTH TIMBALIER 75 REB 95" 15. CHECK APPRUPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA 14. WATER DEPTH REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF: ACIDIZE [ ] [ ] REPAIR WELL [ ] [ ] PULL OR ALTER CASING [ ] 11 MULTIPLE COMPLETE [ ] [ ] (NOTE: Report results of multiple CHANGE ZONES [ ] 11 completion or zone changes on lura DEBECRATE [ 1 MMS-330) PERMANENT ABANDONMENT [X] TEMPORARY ABANDONMENT [ ] [ ] ARTIFICIAL LIFT [ ] [ ]

16. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state sil pertinent details, and give pertinent dates, including estimate date of starting any proposed work. If well directionally drilled, give subsurface locations and measured and true vertical depth-for all markers and zones pertinent to this work.)

OPERATIONS ARE EXPECTED TO COMMENCE ON/OR ABOUT APRIL 15, 1992 AS OUTLINED IN THE ATTACHED PROCEDURES.

CONFIDENTIAL For MMS Use Only

JOHN C. PRINCE, JR. TITLE SR. PRODUCTION ENGINEER DATE 02/21/92	APPROVED		DATE
SIGNED CHIME TITLE SR. PRODUCTION ENGINEER DATE 02/21/92		(This space for Federal or State office use)	
	JOHN C. PRINCE, JR.		
		TITLE SR. PRODUCTION ENGINEER	DATE 02/21/92
17. I haven certify that the foresting is true and correct	11.1.	2	
	7. I hereby certify that the for	egaing is true and correct	
Subsurface Safety Valve: Manu. and Type	Subsurface Safety Valve: Manu, and	Type	

Form HMS-331 (Nay 1983) (Supersedes USGS Form 9-331 which will not be used)

(Other)

120

See instructions on reverse

#### SOUTH TIMBALIER 75 OCS-G-8443 WELL E-1 PLUG AND ABANDON PROCEDURE

The well is completed in the Big A-5 sand with perforations from 15.376-15.389 and 15.404-15.410' MD. The well and platform have no further use therefore a plug and abandon of the well is planned. After plugging the well the platform will be removed.

last Test: 5/9/91 316 MCFD 13 BOPD 802 BWPD 14/64 3500 PSI FTP 38% BS&W

lummulative Production: 4120 MMCF 360.5 MBO 216.2 MBW

- .. Mobilize liftboat to location.
- 1. R/U a cement pump and squeeze 75 sacks of Class H low fluid loss coment into the Big A-5 sand perforations.
- Follow the 75 sacks with 5 sacks to be left in the 2 7/8" tubing. Displace the dement with a wiper plug leaving the TOO in the 2 7-8" at 15,196".
- 4. Allow 18-24 hours for cement to set then rest to 1000 psi.
- 3. RIH with a through tubing perforatily gun loaded 2 spf to 4526' and perforate. We are only punching holes in the tubing to circulate cement into the annulus.
- Once perforated establish an injection rate down the 2 7/6" taking returns at the 7" casing valve.
- 7. Dement the 2 7 8" x 7" annulus with 30 sacks of Class H cement followed by 5 sacks of Class H to be left in the 2 7 9" tubing The 30 sacks covers 200" in the annulus and the 5 sacks covers 200" in the tubing. TOC in both at 4326".
- Allow 18-24 hours for dement to set then test to 1000 psi.
- 2. FIH with a jet sutter and cut the 2 7 8" at 500". Recover the 500" of tubing.
- 22 PIH with a jet outter and out the 7" casing at 500". Recover 500" of 7" casing.
- 21. RIH with a 9 5/8" permanent bridge plug setting same at 450".
  1. imp 1. sacks of sement on top of the orige plug leaving the TOO at 350".
- Allow 18-24 hours for the dement to set then test to 1000 ps: by pressuring up at the 9 5 6" casing valve.
- 4. Turing this PMA operation each casing annulus will be tested as follows: 16" x 48" 200 psi

20" m 26" - 250 psi 13 5 8" m 20" - 500 psi 4 5 3" m 13 5 8" - 1000 psi

- If any test fail, attempts will be made to squeeze cement into the annulus.
- .i. 'pon completion of this procedure the platform will be removed by the Construction group.

#### SOUTH TIMBALIER 75 GCS-G-8443 WELL E-1 CRITICAL INFORMATION

SAND: BIG A 15376-15389' 4 15404-15410'

CASING DETAIL:	48" x 1 1/2" Driven 26" Grade B Liner 20" X-56 169 #/ft 13 5/8" S-95 88.2 #/ft 9 5/8" Q-125 53.5 #/ft 7" P-110 38 #/ft		
TUBING DETAIL:		15284 1 15236 1 452 1	(%)

TUBULAR CAPACITIES:	2" X 48"	8.1060 au.ft ft.
	10" 1 26"	1.5053 cu.ft ft.
	13 5/8" X 20"	.8292 cu.ft. ft.
	9 5/8" X 13 5/8"	.3299 cu.ft. ft.
	7" X 9 5/8"	.1301 cu.ft. / ft.
	2 7 8" x 7"	1461 nu.ft. ft.
	2.7.8"	0294 cu ft. ft.

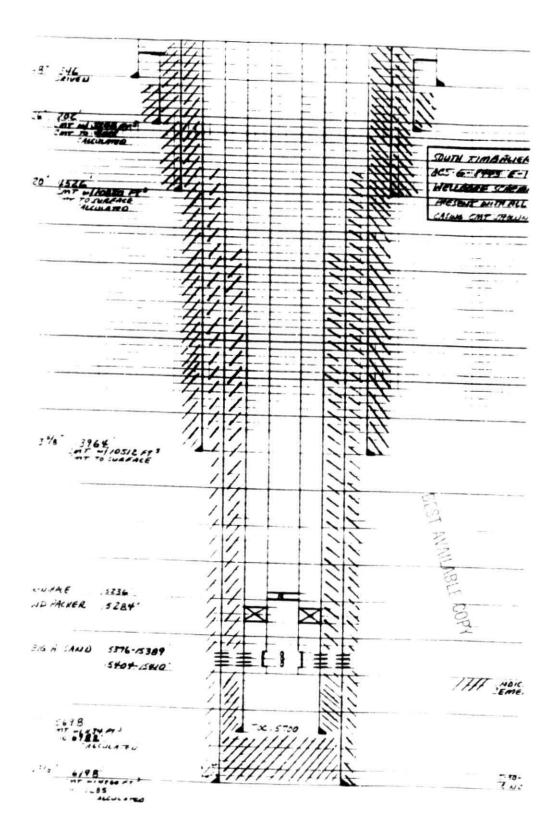
WATER DEPTH: 50

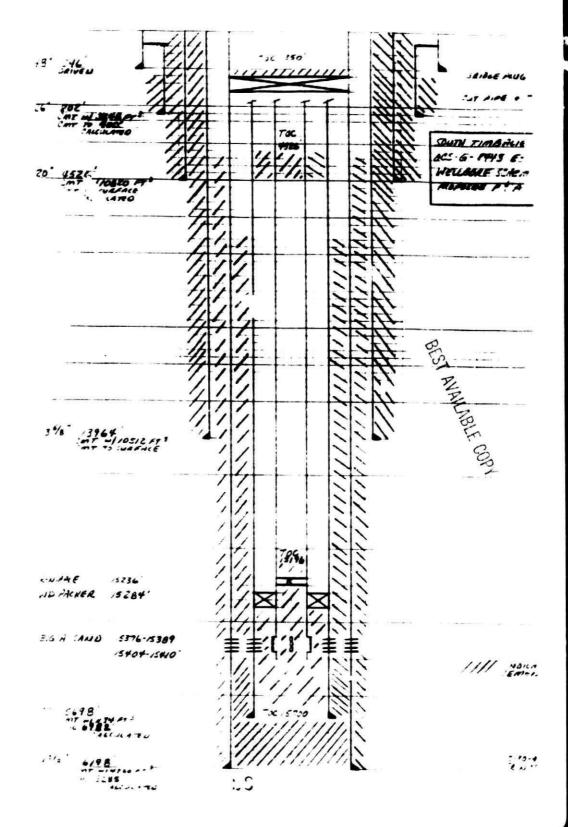
BEST AVAILABLE COPY

SCSSV 360' GEST AVAILABLE COPY THE CHARLE WITH EXISTING ------------. ... 3% 3144 Trosit #7 CHARE SESS ND PACKEL IS ZBY" X 216 A SALO STE-18389 111 JULY 47 Stot SHO S. 18 TOC 5700

:, "

.112 0/9 B





RECEIVED

FEB 2 5 1992

Ottons of Structural and Technical Support

### CNG Producing Company

February 25, 1992

U.S. Department of the Interior Minerals Management Service Gulf of Mexico OCS Region 1201 Elmwood Park Blvd. New Orleans, Louisiana 70123-2394

Attention: Mr. Arwind Shar

Reference: Platform Removal Application Addendum

South Timbalier Block 75 "E"

OCS-G-8443 Lease

Dear Mr. Shar:

This is a response to our telephone conversation on February 24, 1992, on the above subject. You required more detailed information on the 48" well stub removal and well casing make up.

As per the "Plug and Abandon Procedure", CNGP will mobilize a liftboat before the platform is removed and plug the well. The plugging procedure includes setting a cement plug cutting the 2-7/84 tubing and the 7" casing at (-) 500' and rem /ing, setting a 9-5/8" bridge plug at (-) 450' and dumping 10 sacks of cement on top of the bridge plug and pressure test all casing annulus.

Discard the first diagram of the three well diagrams that were sent with the original permit. The second diagram shows the well as it is now and the third diagram shows the well with the P & A complete. As shown at the (-) 5 meter area, there is no cement between the 9-5/8" and the 13-5/8". There is cement between the 13-5/8", 20" and the 26". There is no cement between the 26" and the 48". Again, I am speaking in the area (-) 5 meters below the mud line. All of these areas have cement at some level and will be pressure tested as stated in the P & A Procedure.

In older to cut this well stub during the platform removal it will be necessary to use 50 lbs. of C-4 explosive. We are also talking with a couple of companies that have high pressure cutters. If we were to use a cutter it would be on the 48" only. The small 30" piles will still be cut using explosives. The problem arises with flaring of the 48" drive pipe and removal of the stub through the well guides in the jacket. The jacket may be removed first then the 48" stub nex:

page 2 February 25, 1992

The 26" liner is 0.625" wall, the 20" is 0.812" wall, the 13-5/8" is 0.625" wall, the 9-5/8" is 0.545" wall and the 7" is 0.540" wall.

I hope this additional information clears up all of your questions. If you need any futher information please call me at (504) 593-7468 and I will respond as quickly as possible. This platform removal will not take place until May or June of 1992.

Sincerely,

Steve D. Richardson

Supervisor, Construction Engineering

The D. Killandson

SDR, sdr

cc: A. P. Ventura

Y. C. Abadie

T. L. Reeves

ST 75 E - Gov. Approvals File

## APPENDIX B NMFS CORRESPONDENCE



JUL 2 5 '938

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 Er.dangered 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 see turtles. Therefore, pursuant to Section ? of the ESA, we have established a low level of incidents 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 co: 'itions 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 pioposed actions.



and the same of the same

Consultation must be reinititated 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. Brennen

Assistant Administrator

for Fisheries

Enclosures

## Biological Opinion

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

. .

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

Consultation Conducted By: National Marine Fisheries Service (NMPS)

Date	Issued:	
	ï	

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 apandoment 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 end-ngered and threatened sea turtles.

The dismantling of platforms and related structures using explosives has evolved to a point where a "standard" protocol car me established for removal operations meeting certain criteria. Eased upon removal techniques developed and reviewed in conjunction with the previously conducted "expedited consultations," MMS has requested, by letter of May 24, 1988, a "generic consultation" that would be applicable to all future removal operations that fall within a distinct category, defined by specific parameters. A category has been designed to include those structure types and removal techniques most commonly encountered during the expedited consultations and dismantling operations already completed. Since approximately 1000 structures that may be scheduled for future removal fall within the parameters of the established category, NMFS agrees that a "generic" consultation is appropriate at this time. The objective of the consultation is to reduce the administrative burden on both MMS and MMTS 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, 1) 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 offehore oil and gas structures located in Pederal 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:

- 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 (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 NMPS that may occur in the project area:

CUMMON NAME	SCIENTIFIC NAME	STATUS	LICTED
right whale	Eubelaena glacialis	Ε	6/2/70
finback whale	Balaenoptera physalus	E	6/2/70
humpback whale	Megapters novaeanglise	Ε	6/2/70
sei Whale	Balaenoptera borealis	E	6/2/70
. sperm whale	Physeter catodon	Ε	6/2/70
green turtle	Chelonia mydas	Th E.	7/28/78
Kemp's ridley	Lapidochelys kampi	ľ	12/2/70
leatherback turtle	Dermochelys coriaces	E	6/2/70
loggerhead turtle	Caratta caretta	Th	7/28/78
hawkebill turtle	Eretmochelys imbricata	E	6/2/70

<sup>&</sup>quot;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 GDM. 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 (Tursions truncatus) and fish. Limited experiments conducted by MMPS, 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 dismentling of platforms includes: bulk explosives, shaped explosive charges, mechanical and abrasive cutters and underwater are cutters. The use of bulk explosives has become the industry's standard procedure for severing pilings, well conductors and related supporting structures (approx. 908 use). When using bulk charges, 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 smeller amount of explosive charge is required to sever the structure, which also results in redu cions in the impulse and pressure forces released into the vater column. Use of mechanical cutters and underwater arc cutters is 'uccessful 'n some circumstances and do not produce the ir alse and pressure forces associated with detonation explosives, however, these methods are, in most instances, .ore time consuming, costly and more hezardous 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:

Explosive	Detonating Velocity	Brisance.	
ROX	approx. 8,199 m/sec.	1.35	
C-4	approx. 8,001 m/sec.	1.15	
CompB	approx. 7,803 m/sec.	1.32	

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

The proposed removal operations will be accomplished using high velocity explosives. Use of this typs of explosive charge should ministre the duration of the impulse and pressure forces produced by detonation of the charges, while providing the emount 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, NMPS 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 MMPS observers and was conducted using appropriate mitigating measures. At the present time, eight turtles have been sighted in areas near structures being dismantled, at least two of which were green turtles. Of the eight documented sightings, one turtle was reported to be floating on it's back near a liferm after detonation of charges, apparently stunned or injulial. No other incidents of sea turtle injury or mortality have been reported. Therefore, NMPS 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 c 'nion that removal of platforms and related structures in the G.M 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:

at the results

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 is designated that may be affected by the

### INCIDENTAL TAKE STATEMENT

Section 7(b)(4) of the Endangered Spacies 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 foutheast 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 NMS 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:

 Qualified observer(s), as approved by MMPS, 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 aeria. 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 see 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 MMPS 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 %1.88 surrounding the platform (blasting) sites for turtles and marine mammals. Any sightings must be reported to the NAFS or NAS 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 serial 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 NNFS and/or NNS on-site personnel.
- 8) A report summarizing the results of the removal and mitigation measures must be submitted to the MMIS Gulf of Mexico Region within 15 working days of the removal. A copy of the report must be forwarded to MMPS, Southeas.

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 "Totters of Authorization" are issued.

#### REFERENCES

- Carillouet, C.W., A.M. Landry, M.J. Duronslet, S.A. Manzella, C.T. Fontaine, D.B. Revera, K.L. Indelicato, T.D. Williams, and D. Forcucci, 1986. Preliminary Evaluation of Biological Impacts of Underwater Explosions Associated with Removal of an Cil Field Structure From the Gulf of Mexico Near Crystal Beach, Texas. National Marine Fisheries Service, Southeast Fisheries Center, Galveston Laboratory 32 pp.
- Duronslet, N.J.. C.W. Caillouet, S. Manzella, K.W. Indelicato, C.f. Fontaine, D.B. Revera, T. Williams and D. Boss, 1986. The Effects of an Underwater Explosion on the Turtles Lepidochelys kampi and Caretta Caretta with Observation of Effects of Other Marine Organisms. Unpublished Trip Report Removal of Tenneco Oil Platform on June 21, 1986. NMFS, SEFC, Galveston Laboratory. 19 pp.
- Fontaine, C.T., 1986. Observations on the Removal of Tenneco Oil Platform 493-8, West Cameron Field, 20-23 July 1986. Unpublished Trip Report to NMFS, SEFC, Galveston Laboratory 9 pp.
- Klima, E.F., 1986. Summary Report on Biological Impacts of Offshore Petroleum Platform Severance Using Explosives. Unpublished Report to NMFS, SEFC, Galveston Laboratory 19 pr
- Minerals Management Service, 1986. Platform Removal Techniques. Unpublished Report, MMS Gulf of Mexico Region, 14 pp.
- National Marine Fisheries Service, 1986. Biological Opinion Concerning Impacts of Proposed Removal of Cities Services Oil and Gas Corporation's Offshore Platform B-1, Located in Galveston Block 144, Gulf of Mexico. 14 pp.
- National Marine Fisheries Service, 1987. Biological Opinion Concerning Proposed Removal of Pennsoil Company's Platform A, Located in Vermillion Block 228, Gulf of Mexico. 24 pp.
- Renaud, M. and G. Gitschlag, 1987. Study of Biological Impacts of the Explosive Removal of an Offshore Platform (Pennzoil Platform - Vermillian 228A). Unpublished Trip Report to NMFS, SEFC, Galveston Laboratory. 9pp.

1	Operator	Lease Area	Block	Structure
40	Mobil Exploration and Producing Company U.S. Inc.	Eugene Island	354	λ
		Vermilion	182	A
11	Kerr-McCee Corporation	Ship Shoel	296	Α
4.2	Conoc / Inc.	Ship Shoal	206	A
	•	Vermilion	242	A
4.3	Hobil Exploration and Producing Company U.S. Inc.	West Cameron	132	1
		·	101	c
44	Tenneco Oil Exploration and Production	Rest Cameron	255	F
454	Mobil Exploration and Producing Company U.S. Inc.	Eugene Island	119	С
		Vermilion	76	8
	" (heliport)		•	•
	Except capped and plugged wells "A" & "B" in Ve	SCHITTION-18-8		
46	Mobil Exploration and Producing Company U.S. Inc.	Vermilion	76	1 -
4 7	Samaden Oil Corporation	Galveston	241	A
48	Conoco Inc.	Grand Isla	63	A
	:	•	54	3
			47	6
49	Mobil Exploration and Producing Company U.S. Inc.	Main Pass	91	2
50	Mobil Exploration and Producing Company U.S. Inc.	South Pelto	12	D
51	Exxon Company	West Delta	30	5
		•	•	V
			31	1
				W
5.2	Conoco Inc	West Delta	45	R - 1

5.1	Mobil Exploration and Producing Company U.S. Inc. $^{\nu}$	West Cameron South Marsh	71 235	A 9	
54	Tenneco Oil Exploration and Production	Ship Shoal	199	8	-
56*	Conoco Inc.	West Cameron	135	A	
	•	East Cameron	47	D	
	•	8. Harsh, W. Ad	261	A	
-	Except West Cameron-261-A				
57*	Exxon Company U.S.A. Except High Island East Addition-A342-A	High Is., E. Ad	A-3~2	3	
58	BHP Petroleum	High Island	A-507		
59	Mobil Exploration and Producing Company U.S. Inc.	East Cameron	14	5	-
60	FMP Operating Company	West Cameron	464	A	1
61	Amoco Production Company	S. Marsh Island	33	A	. 1

Consultations whose numbers include an asterisk (\*) did not totally fell 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.