UNITED STATES DEPARTMENT OF THE INTERIOR MINERALS MANAGEMENT SERVICE Gv'f of Mexico OCS Region New Orleans, Louisi na

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SITE-SPECIFIC ENVIRONS TAX ASSESSMENT ENTANGERED SPECIES/SA DCTURE REMOVAL Nos. ES/SR 92-36/S and 91-37/S

Structure Penoval Ac [vi'v]
North Padre Island Area, Block A-43
Lease OCS-G 8076
Sept mber, 1993

BEST AVAILABLE COPY

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 Nos. ES/SR 91-36/S and 91-37/S

Assessment of the Environmental Impacts of the Proposed Removal of Well Stub Nos. 1 and 2, and three-slot template in North Padre Island A_ea,
Block A-43 (Lease OCS-G 807%,
by Amerada Hess Corporation

Date Submitted: August 20, 1991 Commencement Date: September, 1991 Prepared by Susan B. Gaudry

FINDING OF NO SIGNIFICANT IMPACT

I have considered the proposal by Amerada Hess Corporation to remove Well Stub Nos. 1 and 2, and a three-slot template, North Padre Island Area, Block A-43, (OCS-G 8076), SEA Nos. ES/SR 91-36/S and 91-37/S. Based on the environmental analysis and mitigative measures contained in the site-specific environmental assessment, there is no evidence to indicate that the proposed action(s) will significantly (40 CFR 1508.27) affect the quality of the human environment if the permit/application is approved subject to all of the mitigative measures. Preparation of an environmental impact statement is not required.

10

Regional Supervisor

Leasing and Environment Gulf of Mexico OCS Region 9/10/9/

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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 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. 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 and evaluates the removal's 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 OF THE PROPOSAL AND NEED FOR THE PROPOSAL
- A. DESCRIPTION OF THE PROPOSED A. JON WITH MITIGATION

Amerada Hess Corporation has submitted a proposal to remove Well Stub Nos. 1 and 2, and a three-slot template in North Padre Island Area, Block A-43, (Lease OCS-G 8076). The structure is located in a water depth of 213 feet, approximately 30 miles east of Kleberg County, Texas. The operator plans to utilize Composition B or C4 bulk charge to severe the 30" well stubs and internal casings. The template will be lifted from the well stubs before severing. No explosives will be used to remove the template. If necessary, the operator will section the template by Oxy-Arc cutting. See Table 1 for specific data regarding the explosive removal operations.

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

MITIGATION

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

B. NEED FOR THE PROPOSED ACTION

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). The operator plans to conduct

removal activities because the field has been depleted and no more drilling is planned.

- II. ALTERNATIVES TO THE PROPOSED ACTION
- A. NON-REMOVAL OF THE STRUCTURE(S)

An alternative to the proposed structure removal as originally submitted is non-removal. Non-removal of the structure 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 or 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 123 and 125 (USDOI, MMS, 1989) and the PEA (USDOI, MMS, 1987). Updated information is also found in the Final Environmental Impact Statement for Sales 131, 135, and 137 (USDOI, MMS, 1990). 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 it does not appear to be a feasible alternative for the subject structure(s).

Refer to the FEIS (USDOI, MMS, 1989) 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.

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.

The Operator will comply with the terms and conditions of the Incidental Take Statement in the NMFS generic Biological Opinion dated July 25, 1988.

The lessee will ensure that all aircraft used in support of their OCS operations maintain a minimum altitude of 2,000 feet over all national wildlife refuges and national park lands.

Transportation operations conducted through Aransas or Cavello Passes will avoid disturbances of the following islands used for nesting by the endangered brown pelican: Sundown Island in Matagorda Bay, Second Chain of Island in San Antonio Bay, Long Reef in Aransas County, and Pelican Island in Nueces County, Texas.

The operator will contact Chief, Naval Air Training, Naval Air Station, Attention: Lt. Commander Williams or Lt. Jex, Corpus Christi, Texas 78419-5100, telephone: (512) 939-3927/3902 regarding control of electromagnetic emissions and operations of boat and/or aircraft traffic into the designated Military Warning Area W-228 or enter into an agreement with the military installation.

Our analysis of the proposal identified no additional mitigation.

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, see the PEA referenced in the Introduction.

3. Physical and Chemical Oceanography

a. Physical Oceanography

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

b. Chemical Oceanography

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

4. Water Quality

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

5. Air Quality

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

B. BIOLOGICAL ENVIRONMENT

1. Coastal Habitats

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

2. Protected, Endangered, and/or Threatened Species

a. Birds

The operator has indicated that they propose to use Corpus Christi, Texas as shorebase to support the proposed structureremoval activities. The PEA (USDOI, MMS, 1987) delineates sensitive areas along the Texas coastline where whoop; and brown pelicans could be adversely impacted by st removal support activities. The lessee will ensur aircraft used in support of their OCS operations a a refuges minimum altitude of 2,000 feet over all national and national park lands. Transportation operatic iducted through Aransas or Cavello Passes will avoid dist. nces of the following islands used for nesting by the endangered known pelican: Sundown Island in Matagorda Bay, Second Chain of Island in San Antonio Bay, Long Reef in Aransas County, and Pelican

Island in Nueces County, Texas. The proposed work is not expected to impact threatened or endangered birds or their habitats.

b. Marine Mammals

A discussion of marine mammals occurring across the Gulf of Mexico (GOM) and an assessment of the potential impacts of structure-removal activities on marine mammals can be found in the PEA (USDOI, MMS, 1987). Fritts et al. (1983) conducted aerial surveys across a 9,514 square mile area of waters lying in the central GOM. Results of these surveys . dicate that the bottlenose dolphin is by far the most likely marine mammal to be encountered at the proposed structure removal. MMS observers may be utilized to look for marine mammals prior to detonation of the primary charge at the removal site. If marine mammals are detected at the structure-removal site, detonation of the primary charge would be delayed until the animals are removed from the area. 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, the proposed structure-removal activities are expected to have only a low impact on marine mammals.

c. Sea furtles

A discussion of sea turtles occurring across the central and western GOM and an assessment of the potential impacts of structure-removal activition on sea turtles can be found in the PEA (USDOI, MMS, 1987). Socies by Fritts et al. (1982) and Fuller and Tappan (1986) ell as stranding data from the Sea Turtle Stranding and Salvays Network (Teas and Martinez, 1990) indicate that sea turtles occur in the vicinity of the proposed activities. Definitive information on the probability of encountering sea turtles at the removal site during removal operations is scarce. The NMFS and/or MMS observers may be utilized to look for sea turtles prior to detonation of the primary charges. If sea turtles are detected at the structureremoval site, 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 area undetected, and could be injured or killed by the underwater, subsurface detonations. This occurrence is considered highly unlikely, and with the indicated protective mitigation measures, the proposed structure-removal activities are expected to have only a low impact on sea turtles. A cumulative incidental take has been authorized by NMFS for actions in this category, 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, 1987). The proposed activities are located approximately seven miles west of Dream Bank, therefore, the subject structure removal will not impact any sensitive marine habitats or their resident biota.

Offshore Habitats and Biota

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

C. SOCIOECONOMIC CONCERNS

1. Employment

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

2. Economics

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

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

The operator has indicated that they propose to use Corpus Christi, Texas as the shortings to support the proposed structure-removal activities. No impacts are expected as a result of the proposed activities.

D. OTHER CONSIDERATIONS

1. Commercial and Recreational Fisheries

a. Commercial Fisheries

For analysis information, see the PEA seferenced in the Introduction. Since the PEA was originally written, new concerns

have emerged concerning the impacts of explosive structure removal on reaf fish populations. On May 9, 1991, the Gulf of Mexico Fish Management Council expressed concern over the declining stocks of reaf lish, especially red anapper. They referred to the intidotal 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 LMS 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 Hibitats and Bio(2) for a discussion of fish kills in association with explosive structure removals.

MMS has declined to hold all expl. sive structure temovals 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 will be used to determine future policies with respect to these activities.

MMS continues to consider the overall impacts of structure removals or 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.

n. Recreational Fisheries

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

2. Archaeologica desources

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

3. Military Use/Warning Areas and Explosive Dumping Areas

The proposed structure-removal activities will take place in Military Warning Area W-228. The operator will contact Chief, Naval Air Training, Naval Air Station, Attention: Lt. Commander Williams or Lt. Jex, Corpus Christi, Texas 78419-5100, telephone: (512) 919-3927/3902 regarding control of electromagnetic emissions and operations of boat and/or aircraft traffic into the designated Military Warning Area W-228 or enter into an agreement with the military installation. A description of these areas, their locations and potential impacts of structure-removal

activities on these works can be found in the PEA (USDOI, MMS, 1987. No impact is experted.

4 Navigation and Shipping

The proposed structure-removal activities in Block A-43 are not located in a vessel fairway or anchorage area. Structures located nearshore may serve as "landmarks" to vessels or helicopters operating in the area on a regular basis. The overall impacts of the proposed work on navigation and shipping is expected to be very low. More information on the impacts of structure removal on navigation and shipping can be found in the PEA (USDOI, MMS, 1987).

5. Pipelines and Cables

The PEA (USDOI, MMS, 198") contains a description of the impacts of structure removal on pipelines and cables. There are no existing pipelines within 150 meters (490 feet) of the proposed structure-removal activities. The proposed work will not pose a hazard to pipelines or cables in the area.

6. Other Mineral Resources

No impacts are exp. ced 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 explosive methods to remove the tubject structure. 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 prote ted, 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 in 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. PUPLIC OPINION

A discussion of public concerns regarding structure removals can be found in the PEA (USDOT, MMS, 1987). The proposed structure removal has generated no comments from the public.

V. CONSULTATION A.D COORDINATION

In accordance with the provisions of Section 7 of the Endangered Species Act, the property 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 NMTS concluded that this category of structureremoval activities wil: ot 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, Yemp's ridley, green, hawksbill, or 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 scructure-removal Therefore taking of marine mammals by the operator would be prohibited unless they successfully apply for and obtain a waiver or permit to do so from NMFS.

VI. BIBLIOGRAPHY AND SPECIAL REFERENCES

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

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U.S. Department of the Interior. Minerals Management Service. 1990. Final Environmental Impact Statement. Proposed OCS oil and gas lease sales 131, 135, and 137 (Central, Western, and Eastern Gulf of Mexico). OCS EIS/FA MMS No. 90-0042. Washington, D.C. Available from the Gulf of Mexico Region or from NTIS, Springfield VA: vol. 1, PB90-273582; vol. 2, F890-273590.

Table 1

Explosives Proposed by the Operator for the Structure Removal in North Padre Island Area, Block A-43

Type of Explosives:

Composition B or C4 bulk charges.

Number and Size of Charges:

One 50-lb charge for Well No. 1, and one 40-lb charge for the Well No. 2. No explosives will be used to remove the template.

Employment of Charges:

Inside, 15-20 feet below the mud line.

Sequencing of Detonation:

Single shots; Each casing stub (Well No. 1 & 2.) will be severed with a single detonation.

VII. PREPARERS

Author:

Susan B. Gaudry - Environmental Protection Assistant

Typist:

Sandra Pavlas - Clerk Typist

VIII.APPENDICES

- A. AMERADA HESS CORPORATION CORRESPONDENCE
- B. NMFS CORRESPONDENCE

APPENDIX A AMERADA HESS CORPORATION CORRESPONDENCE

Minerals Management Service Leasing & Environment FIRE STATES SCREAMENT METOFALDIM 23/91 Environmental Operations Section (LE-5) To: Office of Structural and Technical Support, Field Operations, Frca: Gulf of Mexico CCS Region (OSTS) CASING STUB Subject: Pattern Removal SEST AVAILABLE Q OPERATOR: Chrenada Ttens CASING STUB Area/Block Borth Padre or . yelen 3 sint template Shore Base: Company Ariste, TX 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 no existing pipeline(s) within 500 feet of the proposed removal location. I Then in an environmental or, siture anea, yelecure BURT MULLIN AFVICE CLEE (OSTS) Extension :::

UISIANA. SUITE 700

AMERADA HESS CORPORATION

1201 LOUISIANA, SUITE 700 HOUSTON, TEXAS 77002-5681 719-484-9770

August 20, 1991

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

Attn: Mr. Arvind Shah, OSTS

Re: Application for Removal of Well Stubs

North Padre Island A-43

RECEIVED

AHG 2 3 1991

e · · · · · Structural

Dear Mr. Shah:

Attached is an application for removal of two 30" diameter well stubs and an associated 3-slot template; this application is sent to your office because the proposed stub removals will involve the use of explosives. Also attached are the Sundry Notices sent to the lake Jackson MMS district office for the well abandonments.

Our mandated deadline for completion of the abandonments is Nov. 1, 1991. We would like to complete them as soon as possible, to meet this deadline and to avoid expensive fall weather downtime. Therefore, expeditious treatment of this application would be much appreciated.

Please call Mr. Craig Edel at (713) 752-5910 if you have any questions.

Sincerely.

J. V. Simon

Manager, Offshore Construction

JCF:dld

cc: D. E. Clark

PROPOSED OCS PLATFORM/STRUCTURE REMOVAL

I.	Res	sponsible Party
	Α.	Lease Operator Name Amerada Hess Corporation
	В.	Address 1201 Louisiana St., Suite 700
		Houston, Texas 77002-5681
	С.	Contact Person and Telephone Number
		Craig Edel (713) 752-5910
II.	Ide	ntification of Structure to be Removed
	Α.	Platform Name Wells #1 And #2
	3.	Location (Lease, Area, Block, and Block Coordinates)
		OCS-G-8076, North Padre Island A-43,
		Approximately 2838' FEL, 5981' FSL (See Attached Sundr, Notices)
		Date Installed (Year) Drilled 1985 & 1986
	D.	Proposed Date of Removal (Month/Year)Sept., 1991
	Ε.	Water Depth 213 Ft.
11.	Des	cription of Structure to be Removed
	Α.	Configuration Well Stubs - See Wellbore Schematics In Attached
		Sundry Notices
		Template - See Attached Drawings (Three Slots)
	В.	Size 30" Dia. Well Stubs with Internal Casings - See Attached
		Sundry Notices
		of Legs/Casings/Pilings Two Stubs

).	Diameter and Wall Thickness of Legs/Casings/Pilings
	30" Drive Pipe
Ε. /	Are Piles Grouted? N/A Inside or Ourside? N/A
F. (Brief description of soil composition and condition
-	Unknown
-	
urpo	<u>ose</u>
F. 8	Brief discussion of the reason for removing the structure
-	Abandonment Of Lease
-	
-	(al Method
	val Method
\ . 3	Brief description of the method used
۱. a	Brief description of the method used
. B	Brief description of the method used
\. 8 √ <u>1</u> <u>N</u>	Brief description of the method used
\. 8 √ <u>1</u> <u>N</u>	Brief description of the method used
A. 8 VI N A	Brief description of the method used
A. B. M. T. M.	Brief description of the method used Well Stubs - Sever Each With Explosive Charge And Lift From Site. Template - Lift From Well Stubs before Severing Of Stubs. If Necessary, Clean Stubs With Water Jet, Or Section Template By Oxy- Arc Cutting. If explosives are to be used, provide the following:
A. B. M.	Brief description of the method used Well Stubs - Sever Each With Explosive Charge And Lift From Site. Template - Lift From Well Stubs before Severing Of Stubs. If Mecessary, Clean Stubs With Water Jet, Or Section Template By Oxy- Arc Cutting. If explosives are to be used, provide the following: Composition 8 Or C4
A. 3 M T N A B. I	Brief description of the method used Well Stubs - Sever Each With Explosive Charge And Lift From Site. Template - Lift From Well Stubs before Severing Of Stubs. If Mecessary, Clean Stubs With Water Jet, Or Section Template By Oxy- Arc Cutting. If explosives are to be used, provide the following: . King of Explosives Composition 8 Or C4
A. 3 M T N A B. I	Brief description of the method used Well Stubs - Sever Each With Explosive Charge And Lift From Site. Template - Lift From Well Stubs before Severing Of Stubs. If Mecessary, Clean Stubs With Water Jet, Or Section Template By Oxy- Arc Cutting. If explosives are to be used, provide the following: . King of Explosives Composition & Or C4
A. 3 M T N A B. I	Brief description of the method used Well Stubs - Sever Each With Explosive Charge And Lift From Site. Template - Lift From Well Stubs before Severing Of Stubs. If Necessary, Clean Stubs With Water Jet, Or Section Template By Oxy- Arc Cutting. If explosives are to be used, provide the following: It is the Well Stubs of Charges of Charges (Open Number, and Sizes of Charges (Open Number, and Si
A. 3 M T N A B. I	Brief description of the method used Well Stubs - Sever Each With Explosive Charge And Lift From Site. Template - Lift From Well Stubs before Severing Of Stubs. If Necessary, Clean Stubs With Water Jet, Or Section Template By Oxy- Arc Cutting. If explosives are to be used, provide the following: It is the Well Stubs of Charges of Charges (Open Number, and Sizes of Charges (Open Number, and Si
A. 3 M T N A B. I	Recessary, Clean Stubs With Water Jet, Or Section Template By Oxy- Arc Cutting. If explosives are to be used, provide the following: King of Explosives Composition 8 Or C4 Number and Sizes of Charges Total Of (%) 50f Charges (One- Per-Stub) 1 40f Charge for Well
A. 3 M T N A B. I	Reversary Clean Stubs With Water Jet, Or Section Template By Oxy-Arc Cutting. If explosives are to be used, provide the following: It is composition 8 Or C4 It is composited 8 Or C4 It is composition 8 Or C

3. Bulk or Shaped Charge?Bulk	_
A Lores 30 Ft	
a. Depth of Detonation Below Mud Line <u>At Least 20 Ft.</u>	
5. Inside or Outside Piling? <u>Inside Inner Casing</u>	
C. Pre-Removal Monitoring Techniques	
1. Is the use of scare charges or crustic devices proposed? Only If Requested By NY	_
If yes, provide the following:	
a. Number and Kind Single Shot, Consisting Of 5 Ft. Of 50 Grains-Per-Foot Primacord, Detonated Wi A Single Electric Blasting Cap.	th
b. Size of Charges <u>See Above</u>	
c. Brief description of how, where, and when scare char	cr
acoustic devices will be used	_
Only When Requested By wiffs, And As Directed By Same.	
Location Would Be 10 ir. Above Seafloor.	
dill divers or acoustic devices be used to conduct a pre-remo	val
survey to defect presence of turtles and marine mammals? Yes	
If yes, briefly describe the proposed detection method	
In Accordance With Incidental Take Statement.	
	_
D. Post-Removal Monitoring Techniques	
1. Will transducers be used to measure the pressure and impulse	of
the detonations?No	
13	

2.	Will	divers	be	used	to	survey	the	area	after	removal	to	determine
	any	effects	on	marin	e	ife?_		1	No			

VI. <u>Biological Information</u>

If available provide the results of any recent biological surveys conducted in the vicinity of the structure. If available, describe any recent observations of turtles or marine mammals at the structure site.

- None Available -

PAMERADA HESS CORPORATION

1201 LOUISIANA, \$1174 700 HOUSTON, TEXAS 77004-8681 713-686-9770

RECEIVE

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and Iron of Support

1991

June 27, 1991

UNITED STATES DEPARTMENT OF THE INTERIOR Minerals Management Service 115 Circle Way Lake Jackson, Texas 77566

Attention: Mr. Edmond Smith,

District Supervisor

Subject:

A STATE OF THE PARTY OF THE PAR

North Padre Island A43

OCS-G 8076, #1 & #2

Dear Sir:

In accordance with 30 CFR 250.65, the enclosed Sundry Notice with attachments is submitted in triplicate for your approval (for each well). A Public Information copy of the Sundry is also enclosed.

Piease contact me at (713) 752-5977 should you require additional information.

Very truly yours, AMERADA HESS CORPORATION

Senior Drilling Engineer

DEC-037/jr Enclosures

DEPARTMENT OF T	ATES THE INTERIOR	5. LEASE NO. OCS-G 8076
MINERALS MANAGE	MENT SERVICE	
		6. AREA & SLOCK North Padre Island A43
SUNDRY NOTICES AND I	REPORTS ON WELLS	
		7. WELL NO.
		8. UNIT AGREEMENT
Do no se this form for proposals to drill or to despen of	plug back to a different reservoir. Use Form	N/A
VMS-33 :-C for such proposals.)		9. FIELD
1. oil well ass well as other		WILDCAT
		10. EVELOBATION T
AMERADA HESS CORPORATION	Attn: D.E. Clark	EXPLORATION
		DEVELOPMENT -
1201 ouisiana, Suite 700 Hous	ton TY 77002	11. ADJACENT STATE
	The second of th	Texas
4. LOCATION OF WELL (Report location in accordance	with instructions and Item (6.)	
AT SURFACE: 2838' FEL & 5981' FSL	of North Padre Island A43	12. API NO. 42-713-40048
AT TOP PROD. INTERVAL:		13. ELEVATIONS
AT TOTAL DEPTH: 2838' FEL & 5981	' FSL of North Padre Island	RKB 308' OF
15. CHECK APPROPRIATE BOX TO INDICATE NATU	DE OF MOTICE REPORT OF OTHER DATA	14. WATER DEPTH
REQUEST FOR APPROVAL TO:	SUBSEQUENT REPORT OF:	213'
	SUBSEQUENT REPORT OF:	
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PULL OR ALTER CASING	=	
MULTIPLE COMPLETE	Ħ	NOTE: Report results of multiple completion
CHANGE ZONES		zone change on Form MMS-330.)
PERFORATE	Ξ	
PERMANENT ABANDONMENT	3	
TEMPORARY ABANDONMENT	ā	
ARTIFICIAL LIFT	=	
(Other)		
	ONE (Class)	
16. DESCRIBE PROPOSED OR COMPLETED OPERATI		
propr ad work. If well is directionally drilled, give sup	surface locations and measured and true vertical d	epths for all merks as and zones pertinent to this wo
STATUS: Well drilled and tempor	surface locations and measured and true vertical of carily abandoned at the mudling	epths for all marks as and zones pertinent to this wo se by Transco on 01/01/86.
STATUS: Well drilled and tempor Attached schematic show	surface locations and measured and true vertical or rarily abandoned at the mudlings we current condicion of wellbo	ments for all marks as and zones pertinent to this we see by Transco on 01/01/86. Fre. Drilling reports
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20

TITLE .

CONFIDENTIAL

DATE

06/27/91

Form MMAS-3E1 (May 1963) (Supercodes USGS Form 9-331 umich will not be used)

APPROVED

D.E. Clark

CONDITIONS OF APPROVAL, IF ANY

17. I hereby certify that the foregoing is true and correct

NORTH PADRE ISLAND A-43

WELL #1 & #2

ABANDONMENT PROCEDURE

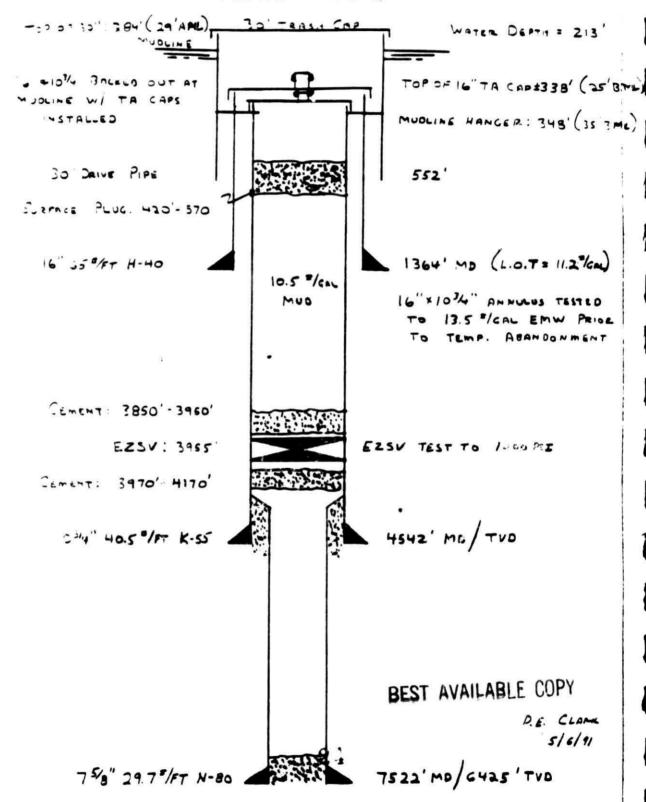
- Move onto location with diving support vessel and locate template and wellhead stubs.
- Jump divers. Rig up cables and remove 30" trash caps from #1 and #2 wellbores.
- Attach lines to drilling template and pull template off well stubs. Pull template out of water and secure on boat deck.
- 4. Proceed with cutting stubs of Hell #1 as follows:
 - a. Verify top of 10-3/4" TA cap at approximately 32' BML.
 - b. Lower explosive charge into 30" and 16" stubs and tag up on 10-3/4" TA cap (maximum charge used will be 50# bulk charge of composition B or 4(C4)).
 - c. Detonate charge and sever the 16" and 30" casings at 20' BML.
 - d. Jump divers and attach line(s) to 16" and 30" cut-off sections and pull out of water.
- 5. Proceed with cutting the stub of (#2 well) as follows:
 - a. Verify top of 16" TA cap at 25' BML.
 - b. Lower explosive charge into 30" stub and position at 20' BML (maximum charge will be 50# bulk charge of composition 8 or 4 (C4)).
 - c. Detonate charge and sever the 30" at 10' BML, mullen: to Cole
 - d. Jumr diver and attach line to 30° cut-off section and pull from water.
- 6. Verify location is clear of debris for a 300' radius using sonar scan.

SOMAR EQUIPMENT SPECIFICATIONS:

Mesotech model 971 imaging system with 675 KHZ transducer fixed 5' above the mudline using tripod deployed from the diving vessel. Range of unit is 300' radius.

NORTH PADRE ISLAND A-43 CCS-G- 3076, WELL 2

(CURRENT STATUS)



MINERALS MANAGEMENT SERVICE	OCS-G 8076
SUNDRY NOTICES AND REPORTS ON WELLS	North Padre Island A43 7. WELL NO.
Do not use this form for proposits to drill or to despen or plug tack to a different reservoir. Use Form MIS-331-C for such proposits.)	8. UNIT AGREEMENT N/A 9. FIELD
1. oil well ges well other	WILDCAT
2. NAME OF OPERATOR AMERADA HESS CORPORATION Attn: D.E. Clark	DEVELOPMENT
1 ADDRESS OF OPERATOR (Where form is completed) 1201 Louisiana, Suite 700 Houston, TX 77002	11. ADJACENT STATE Texas
4. LOCATION OF WELL (Report location in accordance with instructions* and Item (4.)	
AT SURFACE: 2838' FEL & 5981' FSL of North Padre Island A43 AT TOP PROD. INTERVAL:	12. API NO. 42-713-40048
AT TOTAL DEPTH:	RK8 308' DF
5. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA SUBSEQUENT REPORT OF:	14. WATER DEPTH 213
ICIDIZE IEPAIR WELL ULL OR ALTER CASING ULTIPLE COMPLETE HANGE ZONES ERFORATE ERMANENT ABANCONMENT EMPORARY ABANDONMENT	
ULL OR ALTER CASING ULTIPLE COMPLETE U	MOTE BANK
HANGE ZONES ERFORATE ERMANENT ASANCHIMENT EMPORARY ABANDONMENT ERTIFICIAL LIFT	(NOTE: Report results of multiple completion zone change on Form MMS-330.)
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THEORARY ARANDONNERT	
EMPORARY ABANDONMENT GTIERCIAL LIET GTIERCIAL LIET	
RTIFICIAL LIFT	
beurface Safety Valve: Manu. and Type	Set @
I hereby certify that the foregoing is true and correct NED D.E. Clark Dands & Cod TITLE Senior Drilling En	gineer 06/27/91
	GIRGE DATE OG/2//9
(This space for Poderal or State office use)	DATE
DITIONS OF APPROVAL, IF ANY:	K INFORMATION

*See instructions on reverse

MMS-331 (May 1965) servess USGS Form 9-331 16h will not be used)

UNITED STATES DEPARTMENT OF THE INTERIOR MINERALS MANAGEMENT SERVICE

SUNDRY NOTICES AND REPORTS ON WELLS

	The second second	THE RESERVE
5.	LEASE	NO

OCS-G 8076

6. AREA & BLOCK

North Padre Island A43

7.	WELL	NO

Do not use this form for proposels to drill or to deeper or plug back to a different reservoir. Use Form (MS-331-C for such proposels.)		N/A	
mis-331 C for Edgi pro	9. FIELD		
1		WILDCAT	

gas well 🔲 oil well other 2. NAME OF OPERATOR AMERADA HESS CORPORATION Attn: D.E. Clark 3. ADDRESS OF OPERATOR (Where form is completed)

10 EXPLORATION A DEVELOPMENT [

1201 Louisiana, Suite 700 Houston, TX 77002 4. LOCATION OF WELL (Report location in accordance with instructions* and Item 16.) 11. ADJACENT STATE Texas

ATSURFACE: 2831' FEL & 5981' FSL of North Padre Island A43

12. API NO. 42-713-40049

AT TOP PROD. INTERVAL: AT TOTAL DEPTH: 4132' FEL & 9258' FSL of North Padre Island

13. ELEVATIONS RKB 308' DF

15. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:

14. WATER DEPTH 213'

ACIDIZE REPAIR WELL PULL OR ALTER CASING MULTIPLE COMPLETE CHANGE ZONES PERFORATE

PERMANENT ABANDONMENT

(NOTE: Report results of multiple completion zone change on Form MMS-330.)

TEMPORARY ABANDONMENT ARTIFICIAL LIFT (Other)

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

STATUS:

Well drilled and temporarily abanioned at the mudline by Transco on 01/29/86. Attached schematic shows current condition of the wellbore. Drilling reports indicate that downhole plugs and testing were performed in accordance with

all OCS orders.

PLANS:

Abandon the wellbore by removing the 30" stub to below mudline and removing the drilling template. Operations will be performed using divers and an

assist coat.

N/A

17. I hereby certify that the foregoing is true and correct

SIGNED D.E. Clark TITLE __

Senior Drilling Engineer

(This space for Federal or State office use)

APPROVED CONDITIONS OF APPROVAL, IF ANY

Subsurface Safety Valve: Manu. and Type

CONFIDENTIAL

rm MM6-331 (May 1963) (Supersedse USGS Form 9-331 which will not be used)

*Cae instructions on reverse

NORTH PADRE ISLAND A-43

WELL \$1 & \$2

ABANDONNENT PROCEDURE

- Move onto location with diving support vessel and locate template and wellhead stubs.
- Jump divers. Rig up cables and remove 30" trash caps from #1 and #2 wellbores.
- Attach lines to drilling template and pull template off well stubs. Pull template out of water and secure on boat deck.
- 4. Proceed with cutting stubs of Well #1 as follows:
 - Verify top of 10-3/4" TA cap at approximately 32' BML.
 - b. Lower explosive charge into 30" and 16" stubs and tag up on 10-3/4" TA cap (maximum charge used will be 50# bulk charge of composition B or 4(C4)).
 - c. Detonate charge and sever the 16" and 30" casings at 20' BML.
 - d. Jump divers and attach line(s) to 16" and 30" cut-off sections and pull out of water.
- 5. Proceed with cutting the stub of #2 well as follows:
 - a. Verify top of 16" TA cap at 25' BML.
 - b. Lower explosive charge into 30" stub and position at 20' BML (maximum charge will be 50# bulk charge of composition B or 4 (C4)).
 - c. Detonate charge and sever the 30" at 10' BML.
 - d. Jump diver and attach line to 30" cut-off section and pull from water.
- 6. Verify location is clear of debris for a 300' radius using sonar scan.

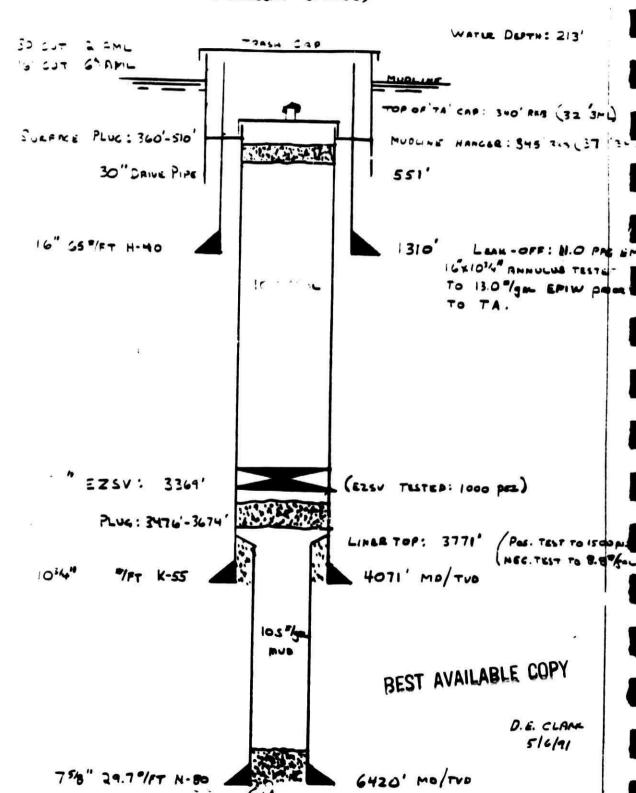
SONAR EQUIPMENT SPECIFICATIONS:

Mesotech model 971 imaging system with 675 KHZ transducer fixed 5' above the mudline using tripod deployed from the diving vessel. Range of unit is 300' radius.

NORTH PADER ISLAND A-43

OCS- G - 3076 WELL 1

(CURRENT STATUS)

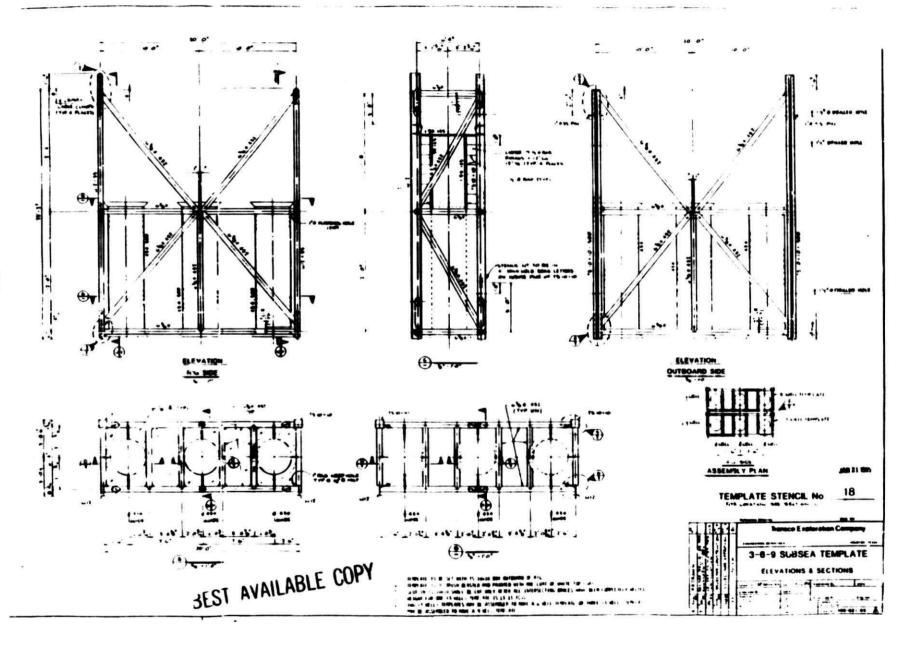


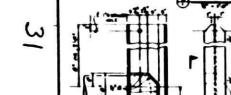
SUNL RY NOTICES AND REPORTS ON WELLS 7. WELL NO. \$2 8. UNIT AGREEMENT N/A 9. FIELD WILDCAT 10. Indivedi ges well other 2. NAME OF OPERATOR AMERADA (IESS CORPORATION Attn: D.E. Clark DEVELOPMENT 1. COL Use I alian, Suite 700 Houston, TX 77002 4. LOCATION OF WELL (Report location in secendance with instructions* and Item 18.) AT SUMFACE: 2831' FEL & 5981' FSL of North Padre Island A43 AT TOP PROC. INTERVAL: AT TOTAL DEPTH: 15. CMT :K APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA REQ: 25T FOR APPROVAL TO: SUBSEQUENT REPORT OF: 2. NORTH Padre Island A43 7. WELL NO. \$2 8. UNIT AGREEMENT N/A 9. FIELD WILDCAT 10. EXPLONATION DEVELOPMENT 11. ADJACEMENT STATE Texas 12. API NO. 42-713-40049 13. ELEVATIONS RXS 308' DF 15. CMT :K APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA REQ: 25T FOR APPROVAL TO: SUBSEQUENT REPORT OF: 213' VICTOR 10. WILL NO. \$2 10. UNIT AGREEMENT N/A 9. FIELD WILDCAT 10. EXPLONATION DEVELOPMENT 11. ADJACENT STATE 12. API NO. 42-713-40049 13. ELEVATIONS RXS 308' DF 14. WATER DEPTH 213' 213' PULL OR ALTER CASING	DEPARTMENT OF THE INTERIOR MINERALS MANAGEMENT SERVICE	S. LEASE NO. OCS-G 8076 B. AREA & BLOCK
Do not use this form for proposable to drill or to despite of plug lack to a different reservoir. Use Form N/A	SUNI RY NOTICES AND REPORTS ON WELLS	North Padre Island A43 7. WELL NO.
Oil well other Oth	(Do not use this form for proposely to drill or to desper, or plug back to a different reservoir. Use Form MMS-331-C for such proposely.)	8. UNIT AGREEMENT N/A 9. FIELD
2. NAME OF OPERATOR AMERIADA IESS CORPORATION ACTION ACTIO		
A ACCRESS OF PERATOR (Where form a completed) 1:01 Louisiana, Suite 700 Houston, TX 77002 1:02 Louisiana, Suite 700 Houston, TX 77002 1:1. ADJACENT STATE TEXAS AT SUMFACE: 2831' FEL 6 5981' FSL of North 2-dre Island Ad3 AT TOP PROC. INTERVAL: AT TOTAL DEFTH: 13. CM' JK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA REC 3ST FOR APPROVAL TO: SUBSEQUENT REPORT OF: REPARR WELL PULL OR ALTER CASING MULTIPLE COMPLETE CHANGE ZONES PERMANENT ABANDONMENT ARTIFICIAL LIFT (Other) SUBSEQUENT size of proposed or Completed Complet	LUEBABA IPCC CORBOBABATON	EXPLONATION: &
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AT TOTAL DEPTH: 13. CLY	AT SUMFACE: 2831' FEL & 5981' FSL of North Padre Island A43	12. API NO.
18. CH* , K APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA REC: SST FOR APPROVAL TO: SUBSEQUENT REPORT OF: 213* 214* 215* 21		
SUBSEQUENT REPORT OF: ACIDIZE REPAIR WELL RULL OR ALTER CASING WILLTIPLE COMPLETE CHANGE ZONES PERFORATE CHANGE ZONES PERFORATE CHANGE ZONES REPAIR WELL INOTE: Report results of multiple completions. INOTE: Peace of multiple completions. INOTE:	15. CHT JK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA	14. WATER DEPTH
REPAIR WELL PULL OR ALTER CASING	REQLEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:	213'
Subsurface Safety Valve: Menu. and Type 17. I hereby certify that the foregoing is true and correct SIGNED D.E. Clark Cond. E. Co. TITLE Senior Drilling Engineer DATE 06/27/91 This spens for Federal or Sesse office use) APPROVED	(Other)	
ITHIS SERIES SERIES OF SER	prof. () Ork. If well is directionally drilled, give subsurface locations and measured and true vertical d	ageths for all markers and zones partinent to this work.
SIGNED D.E. Clark And E COLA TITLE Senior Drilling Engineer DATE 06/27/91 (This gives for Federal or State office use)	97	3(*
(This give for Federal or State office use) APPROVED	Thereby Certify that up foregoing is true and contest	s Engineer DATE 06/27/91
APPROVED DATE		
71110160		DATE

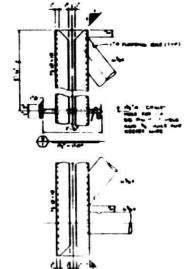
PUBLIC INFORMATION

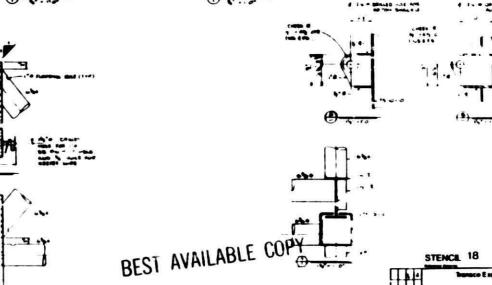
Form MANS-331 (May 1963) (Supercodes USQS Form 9-331 which will not be used)

"See instructions on reverse









STENCE 18

3-6-9 SUBSEA TEMPLATE

APPENDIX B

NMFS CORRESPONDENCE



UNITED STATES DEPURIMENT OF COMMERCE National Oceanic and Atmospheric Administration NATIONAL MARINE FISHERIES SERVICE Weenington D.C. 20235

JUL 2 5 1938

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 (M.FS) pursuant to Section 7 of the Endangered Species Act (ESA) concerning potential impacts on endangered and threatened species associated with removal of certain oil and gas platforms and related structures in the Gulf of Mexico (GOM) using explosives.

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

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



1

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 imposed 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,

Zames 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: _____

Background Information:

1

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

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

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

Description of Proposed Action:

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

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

- 1) Use of high velocity explosives (detonation rate greater than 7,600 meters/second).
- 2) A maximum of eight individual blasts per group of detonations with charges staggered at an interval of 0.9 seconds (900 milliseconds).
- 3) Charges must be set at a minimum depth of 15 feet below the sediment surface. Severing of structures above the sediment surface "open water" must be accomplished by mechanical (non-explosive) methods.
- 4) The maximum amount of explosives per detonation is not to exceed 50 pounds.

Species Occurring in the Project Area:

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

COMMON NAME	SCIENTIFIC NAME	STATUS	LISTED
right whale	Eubalaena glacialia	E	6/2/70
finback whale	Balaenoptera physalus	2	6/2/70
humpback whale	Magapters novacanglise	E	6/2/70
sei whale	Balaenoptera borealia	E	6/2/70
. sporm whale	Physeter catodon	E	6/2/70
green turtle	Chelonia mydas	Th E.	7/28/78
Kemp's ridley turtle	Lapidochelys kampi	2	12/2/70
leatherback turtle	Dermochalys coriaces	2	6/2/70
loggerhead turtle	Caretta caretta	Th	7/28/78
hawkebill turtle	Eretmochelys imbricata		6/2/70

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

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

Assessment of Impacts:

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

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

In summary, the opinions referenced above acknowledge the existence of a possible relationship between the use of underwater explosives in removing platforms and related structures and the occurrence of stranded sea turtles, marine mammals (<u>Tursiops truncatus</u>) 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 emplosive 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:

Explosive	Detonating Velocity	Brisance*
XCR	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 type of explosive charge should ministre 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 Jumulative 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 NMPS observers and was conducted using appropriate mitigating measures. At the present time, eight turtles have been sighted in areas near structures being dismantled, at least two of which were green turtles. Of the eight documented sightings, one turtle was reported to be floating on it's back near a platform after detonation of charges, apparently stunned or injured. No other incidents of sea turtle injury or mortality have been reported. Therefore, 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 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 is designated that may be affected by the proposed activities.

INCIDENTAL TAKE STATEMENT

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

Based on stranding records, incidental captures aboard commercial shrimp vessels and historical data, five species of sea turtles are known to occur in northern Gulf of Mexico waters. Current available information on the relationship between ser turtle mortality and the use of high-velocity explusives t move oil platforms indicates that injury and/or death of ? "tles may result from the proposed actions. Therefore, pu to Section 7(b)(4) of the ESA, an incidental take (by intury ortality) level of one documented Kemp's ridley, gream, hawksbill or leitherback turtle or ten loggerhead turt as in set for all removal operations conducted under the terms and conditions of this incidental take statement. The laws of taking specified here is cumulative for all removals cover by this consultation. If the incidental take meets or wreads that specified level, MMS must reinitiate consultation. The southers Region, NMFS, will cooperate with MMS in the review a transant to determine the need for developing further mini satial moustures.

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 taks should such take occur:

nonitor the area around the site prior to, during and after detonation of charges. Observer coverage will begin 48 hours prior to detonation of charges. If sea turtles are observed in the vicinity of the platform and thought to be resident at the site, pre- and post-detonation diver surveys must be conducted.

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

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- 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 NMPS 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 MMFS, Southeast Region.

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

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40		agene Island	354	A
	<u> </u>	ermilion	182	A
41	Kerr-McGee Corporation S	hip Shoel	296	
42	Conoco Inc. 8	hip Shoal	206	A
	·	ermilion	242	Α
43	Mobil Exploration and Producing Company U.S. Inc. W	lest Cameron	132	1
	•	•	101	С
44	Tenneco Oil Exploration and Production E	ast Cameron	255	,
45	Mobil Exploration and Producing Company U.S. Inc. 2	bels one	119	с
		ermilion	76	В
	" (heliport)	•	•	•
	Except capped and plugged wells "A" & "E" in Verm	11109-76-8		
46	Mobil Exploration and Producing Company U.S. Inc. V	exailion	76	1
47	Samaden Oil Corporation G	alveston	241	A
48	Conoce Inc.	rand Isle	63	A
	•		54	3
		-	47	6
49	Mobil Exploration and Producing Company U.S. Inc. M.	ain Pass	91	2
50	Mobil Exploration and Producing Company U.S. Anc. Se	outh Pelto	12	D
51	Exxon Company	est Delta	30	3
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52	Conoco Inc.	est Delta	45	R-1
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53	Mobil Exploration and Producing Company U.S. Inc.	West Cameron South Marsh	71 235	A 9	
54	Tenneco Oil Exploration and Production	Ship Shoal	199	8	
56*	Conoco Inc.	West Cameron	135	A	
	•	East Cameron 8. Marsh, N. Ad	47 261	D A	
	Except West Cameron-261-A				
57•	Exxon Company U.S.A. Except High Island East Addition-A342-A	High Is., B. Ad	A-342	8	
58	BHP Petroleum	High Island	A-507	A	
59	Mobil Exploration and Producing Company U.S. Inc.	East Cameron	14	5	
60	FMP Operating Company	West Cameron	464	A	()
61	Amoco Production Company	S. March Island	23	A	4

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.