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

FINAL
SITE-SPECIFIC ENVIRONMENTAL ASSESSMENT
ENDANGERED SPECIES / STRUCTURE REMOVALS

ES/SR Nos. 01-046 and 01-047

Assessment of the Environmental Impacts
of the Proposals to Remove
Platform A in Ship Shoal Area, Block 160, Lease OCS-G 05547 and
Caisson #1 in Eugene Island Area, Block 78, Lease OCS-G 11940,
by Walter Oil & Gas Corporation

Date Submitted: May 22, 2001
Commencement Date: June 15, 2001

Prepared by
Warren J. Barton
Environmental Scientist
Walter Oil & Gas Corporation’s application to use non-explosive means to remove Platform A in Ship Shoal Area, Block 160, OCS-G 05547 and Caisson #1 in Eugene Island Area, Block 78, Lease OCS-G 11940, has been reviewed. Our SEA, ES/SRs 01-046 and 01-047 on the subject actions is complete and results in a Finding of No Significant Impact. Based on the conclusions of the SEA, there is no evidence to indicate that the proposed actions will significantly (40 CFR 1508.27) affect the quality of the human environment. Preparation of an environmental impact statement is not required. Mitigation is recommended to ensure environmental protection, consistent environmental policy and safety as required by the National Environmental Policy Act, as amended; or measures needed for compliance with 40 CFR 1500.2(f) regarding the requirement for Federal agencies to avoid or minimize any possible adverse effects of their actions upon the quality of the human environment.

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[Signature]
Chief, Project Management Section
Leasing and Environment, GOM OCS Region

5/22/01
Date
INTRODUCTION AND BACKGROUND

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

I. DESCRIPTION AND NEED FOR THE PROPOSED ACTIONS

Walter Oil & Gas Corporation proposes to remove Platform A in Ship Shoal Area, Block 160, Lease OCS-G 05547 and Caisson #1 in Eugene Island Area, Block 78, Lease OCS-G 11940. The structures are located at water depths of 50 feet and 23 feet feet, respectively. Platform A lies approximately 52 miles southwest of Fourchon, Louisiana, and 25 miles south of Terrebonne Parish, Louisiana, and Caisson #1 lies approximately 76 miles west of Fourchon, Louisiana, and 14 miles southwest of Terrebonne Parish, Louisiana. According to the operator, explosives will not be used for the structure removals. The operator will use mechanical cutters to sever the caisson and pilings a minimum of 15 below the mudline.

A discussion of the legal and regulatory mandates to remove abandoned oil and gas structures from Federal Waters can be found in the PEA referenced in the Introduction. According to the operator, The wells depleted the reserves.

Since no explosives will be utilized during the proposed removal activities, MMS has determined that sea turtles and marine mammals will not be affected. A Section 7 Consultation under the Endangered Species Act, as amended, will not be initiated.

Refer to Appendix A for structure specifications and additional information on the removal activities.
II. ALTERNATIVES TO THE PROPOSED ACTIONS

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

A. NON-REMOVAL OF THE STRUCTURES

The alternative to the proposed structure removals as originally submitted is non-removal. Non-removal of the structures would represent a conflict with Federal legal and regulatory requirements, which mandate the timely removal of obsolete or abandoned structures within a period of one year after termination of the lease, or upon termination of a right-of-use and easement. Therefore, non-removal does not appear to be a valid alternative.

B. REMOVAL OF THE STRUCTURES AS PROPOSED WITH ADDED MITIGATION

Measures that Walter Oil & Gas Corporation proposes to implement to limit potential environmental effects are discussed in the structure removal application. Outer Continental Shelf Operating Regulations, Notices to Lessees and Operators, and other regulations and laws were identified throughout this assessment as existing mitigation for potential environmental effects associated with the proposed structure removal application. Additional information can be found in the Programmatic Environmental Assessment mentioned in the Introduction.

The following mitigative measures will be included in MMS's approval of the proposed structure removal to ensure environmental protection, consistent environmental policy, and safety as required by the NEPA:

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

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

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

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

B. BIOLOGICAL ENVIRONMENT

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

A discussion of marine mammals occurring across the Gulf of Mexico (GOM) and an assessment of the potential impacts of structure-removal activities on marine mammals can be found in the PEA referenced in the introduction. Fritts et al. (1983) conducted aerial surveys across a 9,514 square-mile area of GOM waters. Results of these surveys indicate that bottlenose dolphins are by far the most likely marine mammals to be encountered at the proposed structure-removal site. Since the proposed structure removals will not utilize explosives, no impacts are expected on marine mammals.

A discussion of sea turtles occurring across the central and western GOM and an assessment of the potential impacts of structure-removal activities on sea turtles can be found in the PEA referenced in the Introduction. Studies by Fritts et al. (1983) and Fuller and Tappan (1986) as well as stranding data from the Sea Turtle Stranding and Salvage Network (Teas 1995) indicate that sea turtles may occur in the vicinity of the proposed activities and therefore could be impacted by the structure-removal operations. Definitive information on the probability of encountering sea turtles at the removal site during removal operations is scarce. Since the proposed structure removals will not utilize explosives, no impacts are expected on sea turtles.

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

C. OTHER CONSIDERATIONS

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

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

D. UNAVOIDABLE ADVERSE IMPACTS

A discussion of unavoidable adverse impacts can be found in the PEA referenced in the Introduction. Two areas of ongoing concern have been the potential impact to protected, threatened, and/or endangered species and potential loss of habitat to the marine environment. Both topics are discussed in the PEA and previously in this document, and a low level of impact is expected. Other unavoidable adverse impacts are considered to be minor.

IV. PUBLIC OPINION

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

V. CONSULTATION AND COORDINATION

In accordance with the provisions of Section 7 of the Endangered Species Act, as amended, these proposed structure-removal operations do not require coordination with the National Marine Fisheries Service.
VI. BIBLIOGRAPHY AND SPECIAL REFERENCES


VII. PREPARER

Author: Warren J. Barton - Environmental Scientist
APPENDIX

WALTER OIL & GAS CORPORATION CORRESPONDENCE
UNITED STATES GOVERNMENT
MEMORANDUM

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

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

Subject: Platform Removal

OPERATOR: Walter

Control No. 01-046, 047

PLATFORM AREA/BLOCK LEASE

A SS 160 OCS-G 5547
A(Caisson #1) ET 78 OCS-G 11940

Shore Base: Fourchon, LA

BEST AVAILABLE COPY

The attached application is forwarded to your office so that the finding of no significanct impact

The attached application is forwarded to your office so that the finding of no significant impact can be prepared. Since explosives will not be used in this removal operation, an Endangered
Species Act Section 7 Consultation Documentation is not required. There are no existing
pipeline(s) within 500 feet of the proposed removal location. Should you require any
additional information please contact Mr. Arvind Shah at Extension 2894.

"Felix Dyhrkopp"

Enclosure

cc:

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REVISED: 5/21/96
May 17, 2001

Mr. Donald C. Howard
Regional Supervisor
Office of Field Operations
U. S. Department of the Interior
Minerals Management Service
1201 Elmwood Park Boulevard
New Orleans, Louisiana 70123-2394

Attention: Mr. Arvind Shah

Re: Proposed OCS Platform/Structure Removal Procedure for
OCS-G 5547, Platform “A”, Block 160, Ship Shoal Area
Offshore, Louisiana, Gulf of Mexico, OCS Federal Waters

Gentlemen:

In accordance with the regulations and guidelines contained in that certain NTL No. 99-G21 dated September 13, 1999 and 30 CFR, Part 250.913, Walter Oil & Gas Corporation (Walter) respectfully submits, in duplicate, for your review and approval the attached "Proposed OCS Platform/Structure Removal" procedure for Platform “A”, OCS-G 5547, Block 160, Ship Shoal Area, Offshore, Louisiana.

Platform “A” is an unmanned structure installed over the surface location of Well No. 2, at 1503’ FSI & 5241’ FEL of Block 160, Ship Shoal Area. The structure consists of one (1) 48” caisson and four (4) 30” piles. The platform topsides consist of a 20’ square sump deck, a 20’ square production deck, and a 27’ square helideck supported by two of the 30” piles. An 18’ x 28’ compressor deck is installed on the two remaining 30” piles at the same elevation as the production deck. The production and compressor decks are connected by a walkway.

Additionally, one 3” gas right-of-way pipeline (Segment No. 8683, ROW No. G11149) will be abandoned-in place at the same time the platform is removed. The 3” pipeline originates at Walter’s Platform “A” in Block 160 and terminates at a subsea tie-in with TGP’s (previously owned by Chevron U.S.A. Inc.) 6-5/8” pipeline in Block 167, all being located in the Ship Shoal Area, Offshore, Louisiana.

Walter will utilize an onshore base located in Fourchon, Louisiana for the proposed operations.

Should you have any questions or need additional information, please contact the undersigned at (713) 659-1222.

Very truly yours,

WALTER OIL & GAS CORPORATION

[Signature]

Judy Archer
Regulatory/Environmental Coordinator

Enclosures
SHIP SHOAL AREA BLOCK 160 “A” PLATFORM
WALTER OIL & GAS CORPORATION
PROPOSED OCS PLATFORM/STRUCTURE REMOVAL

I. RESPONSIBLE PARTY
A. Lease Operator Name: Walter Oil & Gas Corporation
B. Address: 1100 Louisiana, Suite 200, Houston, Texas 77002-5299
C. Contact Person/Telephone No.: Judy Archer / (713) 659-1222

II. IDENTIFICATION OF STRUCTURE TO BE REMOVED:
A. Structure Name / Complex ID No: SS-160 Platform A / 23575 01 (ID #)
B. Location (Lease, Area, Block, and Block Coordinates):
   OCS-G-5547, Ship Shoal Area, Block 160
   Latitude: -28° 40’ 31.605”N; Longitude: -90° 54’ 42.968”W
   x = 2,135,159.50’; y = 3,441.30’
   Lease Line Calls: 1503’ FSL & 5241’ FEL of Block 160, Ship Shoal Area
C. Date Installed: June 22, 1989
D. Proposed Date of Removal (Month/Year): June 15, 2001 or as soon as approval is obtained.
E. Water Depth: 50’

III. DESCRIPTION OF STRUCTURE TO BE REMOVED:
A. Configuration: Structural Drawing attached
B. Size: The platform is an unmanned structure for one well.
   The platform consists of one (1) 48” caisson and four (4) 30” piles. The platform topsides consist of a 20’ square sump deck, a 20’ square production deck, and a 27’ square helideck supported by two of the 30” piles. An 18’ x 28’ compressor deck is installed on the two remaining 30” piles at the same elevation as the production deck. The production and compressor decks are connected by a walkway.
C. Number of Legs: Five (5)
D. Diameter and Wall Thickness of Leg/Pilings/Casings:
   48” Caisson – 1.50” x 1.25” x 1.00”
   4 x 30” Piles – 1.00” wall
   Well No. A-1:
   1) 30” x 1” wall drive pipe
   2) 20” x 0.438” casing
   3) 13-3/8” x 0.430” casing
   4) 9-5/8” x 0.545” casing
   5) 7” x 0.453” casing
   6) 2-7/8 x 0.276” tubing
E. Are Piles Grouted? Inside or outside? No
F. Brief Description of Soil Composition and Condition:
   The platform is located in an area that is not susceptible to soil movement. The original platform design used a structure-pile interaction program that incorporates cyclic P-Y data, axial adhesion, and end bearing calculation.
SHIP SHOAL AREA BLOCK 160 “A” PLATFORM
WALTER OIL & GAS CORPORATION
PROPOSED OCS PLATFORM/STRUCTURE REMOVAL
(continued)

IV. PURPOSE:
A. Lease Expiration Date:
   Past primary term. Lease has expired. Lease was being held by production.
B. Brief description of the reason for removing the structure:
   The platform removal is proposed as a result of cessation of production in the OCS-G-5574,
   Well No. A-1 well that is to be permanently abandoned before platform removal is
   commenced.

V. REMOVAL METHOD:
A. Brief description of the method to be used:
   The platform will be removed by a lift boat and will be transported to storage at Allison
   Marine shore facility in Fourchon, La. The platform components will be removed in the
   following order:
   1) Helideck
   2) All equipment skids on the production and compressor decks
   3) The production deck
   4) Compressor deck
   5) Sump deck, pile guides and pilings
   6) The well caisson will be removed and the pilings severed to 15’ below natural bottom in
      compliance with regulations.
   7) Perform 1320’ radius bottom clean bottom sweep and remove debris, if found.
   8) Demobilize from location.

B. Will explosives be used? If so, please provide the following information: No
   Kind of Explosives:
   1) Number, Weight, Type and Size of Charges:
      a. Single or Multiple Shots: NA
      b. If Multiple shots, Sequence and Timing of Detonations: NA
      c. Type of Charges: NA
      d. Number and Weight of Charges: NA
   2) Bulk or Shaped Charge: NA
      a. Depth of Detonation Below Mud Line:
      b. Inside or Outside Piling:

C. Pre-Removal Monitoring Techniques:
   1. Is the use of scare charges or acoustic devices proposed? No
   2. Will divers or acoustic devices be used to conduct a pre-removal survey to detect the
      presence of turtles and marine mammals? No

D. Post-Removal Monitoring Techniques:
   1. Will transducers be used to measure the pressure and impulse of the detonations? N/A
   2. Will divers be used to survey the area after removal to determine any effects on marine
      life? Divers will note adverse affects on marine life in the process of completing the
      removal and picking up of debris.
VI. BIOLOGICAL INFORMATION:
   A. Provide the results, if available, of any recent biological surveys conducted in the vicinity of the structure: NA
   B. Describe any recent observations, if available, of turtles or marine mammals at the structure site.
      None

VII. SITE CLEARANCE PROCEDURAL PLAN:
   A. Site clearance verification will be performed in two stages:
      Diving: Aquatica
      Contractor: Superior Energy Services, Inc.

      Operations will be as follows:
      1. The diving contractor will use Mesotech scanning sonar equipment to locate and remove debris in the vicinity of the caisson.

      2. The diving contractor will stand-by during the trawling to remove any snags experienced during trawler’s site clearance verification.

   B. Trawling (Site Clearance Verification):
      Trawling Contractor: B & J Martin, Inc.
      Survey Contractor: B & J Martin, Inc.
      Navigational Tracking System: See attached B & J Martin, Inc. Sheet

      1. Trawling will be conducted over the area that surrounds the platform for a 1320’ radius circle centered on the caisson’s geometric center by Trawling Contractor). A trawling grid is attached which proposes to provide total coverage of the area in two directions. Coverage overlaps will occur in the event that the trawling operations are interrupted. TED’s will not be used by the Trawling Contractor.

      2. Positioning services will subsequently be provided on board the F/V Captain Jimmie or F/V Dusty Dawn shrimp trawler by B & J Martin, Inc. See attached specifications sheet for the shrimp trawlers.

      3. Trawling Contractor will furnish to Walter a written report on the date work is performed, description of objects recovered and details of trawling activity. Walter will submit to your office as soon as received.

      4. Electronics:
         See attached specifications sheet for the shrimp trawlers.

      5. Trawling Equipment:
         See attached specifications sheet for the shrimp trawler
OVERTURNING MOMENTS (TOTAL WIND, WAVE, AND CURRENT FORCE)

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<thead>
<tr>
<th></th>
<th>LONG.</th>
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<tr>
<td>10,030</td>
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<td>12,340</td>
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ENVIRONMENTAL FORCES (TOTAL WIND, WAVE, AND CURRENT FORCE)

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TOTAL GRAVITY LOADS

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<th>OPERATING</th>
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MAXIMUM PILE MOMENT (STORM LOAD)

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<th>DIST. BELOW M.L.</th>
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<td>1,865 FT. - TONS</td>
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PIECE LOADS - STORM

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<th>MAX. COMPRESSION</th>
<th>MAX. TENSION</th>
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<tr>
<td>182 TONS</td>
<td>80 TONS</td>
<td>68 TONS</td>
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<tr>
<td>278 TONS</td>
<td>203 TONS</td>
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<td>277 TONS</td>
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NOTE: THE ABOVE LOADS ARE PER API RP 2A 20TH EDITION WITH KNOCK DOWN FACTORS PER API RP 2A 19TH EDITION.

ENVIRONMENTAL DESIGN FACTORS

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<tr>
<th>WAVE THEORY</th>
<th>STREAM IX</th>
<th>STREAM IX</th>
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<td>RETURN INTERVAL</td>
<td>100 YRS.</td>
<td>100 YRS.</td>
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<td>WAVE HEIGHT</td>
<td>API 44.00 FT.</td>
<td>API 43.00 FT.</td>
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<td>WAVE PERIOD (ASSOCIATED)</td>
<td>11.00 SEC.</td>
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<td>STORM &amp; ASTRO. TIDE</td>
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<td>CREST ELEVATION (MAX)</td>
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<td>WIND VELOCITY (AT 33 FT.)</td>
<td>98 MPH</td>
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<td>SCOUR</td>
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<td>DESIGN METHOD</td>
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<td>PLATFORM LIFE (ANTICIPATED)</td>
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<td>9</td>
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<td>CATHODIC PROTECTION</td>
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Pinnacle Engineering, Inc.
Houston, Texas

Project No. 111201
Dwg. No. 1112MMS
Rev. 2
Date: 4-15-94

2-Pile Jacket & Compressor Deck Addition

Lease No. OCS-G-5547
Area Ship Shoal Block 160 Plat "A"
Operator Walter Oil & Gas
May 16, 2001

Mr. Donald C. Howard
Regional Supervisor
Office of Field Operations
U. S. Department of the Interior
Minerals Management Service
1201 Elmwood Park Boulevard
New Orleans, Louisiana 70123-2394

Attention: Mr. Arvind Shah

Re: Proposed OCS Platform/Structure Removal Procedure for
OCS-G 11940, Caisson No. 1, Block 78, Eugene Island Area
Offshore, Louisiana, Gulf of Mexico, OCS Federal Waters

Gentlemen:

In accordance with the regulations and guidelines contained in that certain NTL No. 99-G21 dated September 13, 1999 and 30 CFR, Part 250.913, Walter Oil & Gas Corporation (Walter) respectfully submits, in duplicate, for your review and approval the attached "Proposed OCS Platform/Structure Removal" procedure for Caisson No. 1, OCS-G 11940, Block 78, Eugene Island Area, Offshore, Louisiana.

Caisson No. 1 is an unnamed structure installed over the surface location of Well No. 1, at 1496’ FSL & 4043’ FWL of Block 78, Eugene Island Area. The structure consists of a 1-pile, 1-slot well protector structure with a production deck, heliport and boatlanding.

Additionally, one 4-1/2” gas/condensate right-of-way pipeline (Segment No. 9942, ROW No. G-14038) will be abandoned-in-place at the same time the caisson is removed. The 4-1/2” pipeline originates at Walter’s Caisson No. 1 in Block 78 and terminates at ANR Pipeline Company’s 30-inch pipeline in Block 99, all being located in the Eugene Island Area, Offshore, Louisiana.

Walter will utilize an onshore base located in Fourchon, Louisiana for the proposed operations.

Should you have any questions or need additional information, please contact the undersigned at (713) 659-1222.

Very truly yours,

WALTER OIL & GAS CORPORATION

/Judy Archer/
Regulatory/Environmental Coordinator

enclosures
EUGENE ISLAND AREA BLOCK 78, CAISSON NO. 1
WALTER OIL & GAS CORPORATION
PROPOSED OCS PLATFORM/STRUCTURE REMOVAL

I. RESPONSIBLE PARTY
A. Lease Operator Name: Walter Oil & Gas Corporation
B. Address: 1100 Louisiana, Suite 200, Houston, Texas  77002-5299
C. Contact Person/Telephone No.: Judy Archer/(713) 659-1222

II. IDENTIFICATION OF STRUCTURE TO BE REMOVED:
A. Structure Name/Complex ID Number: Caisson No. 1 / 26022 01
B. Location (Lease, Area, Block, and Block Coordinates):
   OCS-G 11940, Eugene Island Area Block 78
   Latitude: 29° 08’ 01.678”; Longitude: 91° 27’ 42.547”
   x = 1,958,976.35; y = 169,898.20’
   Lease Line Calls: 1496’ FSL & 4043’ FWL of Block 78, Eugene Island Area
C. Date Installed: March 3, 1993
   Proposed Date of Removal (Month/Year): June 15, 2001 or as soon as approval is obtained
D. Water Depth: 23’

III. DESCRIPTION OF STRUCTURE TO BE REMOVED:
A. Configuration: Structural Drawing attached
B. Size: Caisson No. 1 is an unmanned structure for one well.
   The caisson consists of a caisson, boat landing, a production deck and helideck.
C. Number of Legs: One
D. Diameter and Wall Thickness of Leg/Pilings/Casings:
   Caisson: 48” x 2.0”
   The following to be cut when Well No. 1 is P&A’d
   1) 30” x 1” drive pipe to be cut ±25” BML
   2) 16” conductor casing to be cut ±25” BML
   3) 10-3/4” surface casing to be cut ±25” BML
   4) 7-5/8” casing to be cut ±274’ BML (395’)
   5) 5-1/2” liner - NA
   6) 2-3/8” tubing to be cut ±625’
E. Are Piles Grouted? Inside or outside? No
F. Brief Description of Soil Composition and Condition:
   Very soft clay, medium dense silty fine sand, firm clay

IV. PURPOSE:
A. Lease expiration Date:
   Past primary term. Lease has expired. Lease was being held by production.
B. Brief description of the reason for removing the structure:
   Well ceased production
V. REMOVAL METHOD:

A. Brief description of the method to be used:

The caisson will be removed by a lift boat and will be transported to a storage on a facility. The caisson components will be removed in the following order:

1) Cut and remove deck at welds on legs. Secure on vessel and transport to dock.
2) Cut 48" caisson off at boat landing and load on vessel and transport to dock.
3) RU jetting equipment and jet out the 48" caisson to 25' BML.
4) RU abrasive cutting equipment and cut the 48" caisson at a minimum depth of 16' BML.
5) RU slings on 48". Jump divers and cut the 48" at 35' BWL and remove. Load section on boat.
6) Jump divers and cut shackle hole (2" minimum of 6" of material above hole and cut the 48" at 16' BML and remove. Load section on boat.
7) Perform 600' radius bottom clean bottom sweep and remove debris, if found. (Note: 600' radius for caisson and 1320' radius for platform)
8) Demove from location.

B. Will explosives be used? If so, please provide the following information: No

Kind of Explosives:

1. Number, Weight, Type and Size of Charges:
   a. Single or Multiple Shots: NA
   b. If Multiple shots, Sequence and Timing of Detonations: NA
   c. Type of Charges: NA
   d. Number and Weight of Charges: NA

2. Bulk or Shaped Charge: NA
   a. Depth of Detonation Below Mud Line:
   b. Inside or Outside Piling:

C. Pre-Removal Monitoring Techniques:

1. Is the use of scare charges or acoustic devices proposed? No
2. Will divers or acoustic devices be used to conduct a pre-removal survey to detect the presence of turtles and marine mammals? No

D. Post-Removal Monitoring Techniques:

1. Will transducers be used to measure the pressure and impulse of the detonations? No
2. Will divers be used to survey the area after removal to determine any effects on marine life? Divers will note adverse affects on marine life in the process of completing the removal and picking up of debris.
VI. BIOLOGICAL INFORMATION:
   A. Provide the results, if available, of any recent biological surveys conducted in the vicinity of the structure: NA
   B. Describe any recent observations, if available, of turtles or marine mammals at the structure site. None

VII. SITE CLEARANCE PROCEDURAL PLAN:
   A. Site clearance verification will be performed in two stages:
      Diving: Aquatica
      Contractor: Superior Energy Services, Inc.
      Operations will be as follows:
      1. The diving contractor will use Mesotech scanning sonar equipment to locate and remove debris in the vicinity of the caisson.
      2. The diving contractor will stand-by during the trawling to remove any snags experienced during trawler’s site clearance verification.

B. Trawling (Site Clearance Verification):
   Trawling Contractor: B & J Martin, Inc.
   Survey Contractor: B & J Martin, Inc.
   Navigational Tracking System: See attached B & J Martin, Inc. Sheet
   1. Trawling will be conducted over the area that surrounds the caisson with a 600' radius circle centered on the caisson’s geometric center by B & J Martin, Inc. (Trawling Contractor). A trawling grid is attached which proposes to provide total coverage of the area in two directions. Coverage overlaps will occur in the event that the trawling operations are interrupted. TED’s will not be used by the Trawling Contractor.
   2. Positioning services will subsequently be provided on board the F/V Captain Jimmie or F/V Dusty Dawn shrimp trawlers by B & J Martin, Inc. See attached specifications sheet for the shrimp trawler.
   3. Trawling Contractor will furnish to Walter a written report on the date work is performed, description of objects recovered and details of trawling activity. Walter will submit to your office as soon as received.
   4. Electronics:
      See attached specifications sheet for the shrimp trawlers
   5. Trawling Equipment:
      See attached specifications sheet for the shrimp trawlers

BEST AVAILABLE COPY.
KEY PLAN
SCALE: 1/16" = 1' - 0"

 Platforn North

BH

AH

20'-0"

10'-0"

CITED LADDER

4" RISER

PRODUCTION DECK

BOAT LANDING

OVERTURNING MOMENTS
LONG. 3179 FT.-TONS
TRANS. 3623 FT.-TONS
DIAG. 3633 FT.-TONS

TOTAL GRAVITY LOADS
OPERATING 146 TONS
STORM 137 TONS

MAXIMUM PILE MOMENT
( STORM LOAD)
MOMENT 4288 FT.-TONS
DIST. BELOW M.L. 15 FT.

PILE LOADS - STORM

MAX. COMPRESSION MAX. TENSION HORIZONTAL SHEAR
LONG. 137 TONS TRANS. 137 TONS DIAG. 137 TONS

ENVIRONMENTAL DESIGN FACTORS
WAVE THEORY STREAM
RETURN INTERVAL 100 YRS.
WAVE HEIGHT AP1 - 30 FT.
WAVE PERIOD 14 SEC.
STORM & ASTRO. TIDE 10.5 FT.
CREST ELEVATION 36.8 FT.
SURFACE CURRENT 0.0 FT./SEC.
MUDLINE CURRENT 0.0 FT./SEC.
MARINE GROWTH 2 IN. ON DIAMETER
DRAG COEFFICIENT 0.6
INERTIA COEFFICIENT 1.50
WIND VELOCITY 117 MPH
SCOUR 0.0 FT.
DESIGN METHOD ELASTIC
PLATFORM LIFE (ANTICIPATED) 10 YRS.

EEI JOB NO. 1338
DWG. NO. 1338-MMS REV. NO. 0 DATE 03/12/93
1-WELL CAISSON PRODUCTION PLATFORM
LEASE NO. GCS-6-11940
AREA EUGENE ISLAND BLOCK 78
OPERATOR WALTER OIL & GAS CORPORATION