

UNITED STATES DEPARTMENT OF THE INTERIOR

MINERALS MANAGEMENT SERVICE

Gulf of Mexico OCS Region

New Orleans, Louisiana

FINAL

SITE-SPECIFIC ENVIRONMENTAL ASSESSMENT

ENDANGERED SPECIES/STRUCTURE REMOVAL(S)

ES/SR No(s). 99-068

Assessment of the Environmental Impacts  
of the Proposal(s) to Remove Caisson Number 2 in  
Viosca Knoll Area, Block(s) 117  
Lease(s) OCS-G 6872  
by OEDC Exploration & Production, L.P.

Date Submitted: May 13, 1999

Commencement Date: May 1999

Prepared by

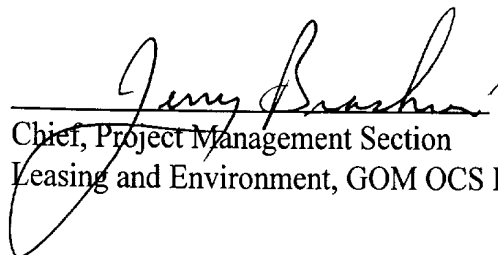
Michael B. Wallace  
Environmental Protection Specialist

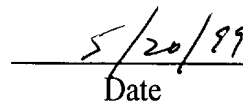
NOTED - SCHEXNAILDRE

CE/10/13/99

SITE-SPECIFIC ENVIRONMENTAL ASSESSMENT/FONSI/EIS DETERMINATION

OEDC Exploration & Production, L.P.'s application(s) to use non-explosive means to remove Caisson Number 2 in Viosca Knoll Area, Block(s) 117, OCS-G 6872, has/have been reviewed. Our SEA, ES/SR 99-068, on the subject action is complete and results in a Finding of No Significant Impact. Based on the conclusions of the SEA, there is no evidence to indicate that the proposed action will significantly (40 CFR 1508.27) affect the quality of the human environment. Preparation of an environmental impact statement is not required. Mitigation are 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.

  
Chief, Project Management Section  
Leasing and Environment, GOM OCS Region

  
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) (USDOJ, 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 removal's potential impacts. Mitigation measures are contained in this document to lessen potential impacts. Preparation of this SEA has allowed the determination of whether a Finding of No Significant Impact (FONSI) is appropriate or whether further assessment of the proposal(s) is necessary.

### I. DESCRIPTION AND NEED FOR THE PROPOSED ACTION

OEDC Exploration & Production, L.P. proposes to remove Caisson Number 2 in Viosca Knoll Area, Block 117, Lease OCS-G 6872. The structure(s) is/are located in water depth(s) of 105 feet and lie(s) approximately 24 miles south of Dauphin Island, Alabama. According to the operator explosives will not be used for the structure removal(s). The operator plans to remove the structure(s) by severing the caisson, conductor and casing string, with mechanical cutter, at minimum of 15 feet 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, production depleted and the lease expired.

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 ACTION(S)

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

#### A. NON-REMOVAL OF THE STRUCTURE(S)

The 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 and easement. Therefore, non-removal does not appear to be a valid alternative.

#### B. REMOVAL OF THE STRUCTURE(S) AS PROPOSED WITH ADDED MITIGATION

Measures which OEDC Exploration & Production, L.P. 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 action to ensure environmental protection, consistent environmental policy, and safety as required by the NEPA:

Our review indicates that there are pipelines in the vicinity of Caisson Number 2 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. 83-3, Section IV.B, prior to performing operations.

Our review of your application indicates that the routes to be taken by boats and aircraft in support of your proposed activities are located in or could traverse Military Warning Area W-453. Therefore, please be advised that you will contact the Air National Guard-CRTC, Gulfport/ACTS, Gulfport, Mississippi 39507 (contact TSgt. D. Crawford or TSgt. L. Wyche, at 601/867-2433) concerning the control of electromagnetic emissions and use of boats and aircraft in Military Warning Area W-453.

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

In accord 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.

A discussion of marine mammals occurring across the GOM and an assessment of the potential impacts of structure-removal activities on marine mammals can be found in the PEA (USDOI, MMS, 1987). Fritts et al. (1983) conducted aerial surveys across a 9,514 sq mi area of waters lying in the central GOM. Results of these surveys indicate that the bottlenose dolphin is by far the most likely marine mammal to be encountered at the proposed structure removal. Since the proposed structure removal will utilize no 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 (USDOI, MMS, 1987). Studies by Fritts et al. (1983) and Fuller and Tappan (1986) as well as stranding data from the Sea Turtle Stranding and Salvage Network (Teas, 1995) indicate that sea turtles may 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. Since the proposed structure removal will utilize no explosives, no impacts are expected on sea turtles.

Other environmental effects to the biologic environment 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.

### 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 minerals uses, and health and human safety can be found in the PEA referenced in the Introduction.

The proposed structure-removal activities will take place near a vessel safety fairway or anchorage area. Structures located nearshore may serve as "landmarks" to vessels or helicopter operating in the area on a regular basis. The overall impacts of the proposed work on navigation and shipping are expected to be very low.

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. One area of primary concern is the potential loss of habitat to the marine environment. This topic is discussed in the PEA 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, this proposed structure removal does not require coordination with the National Marine Fisheries Service.

## VI. BIBLIOGRAPHY AND SPECIAL REFERENCE(S)

- Fritts, T.H., A.B. Irvine, R.D. Jennings, L.A. Collum, W. Hoffman, and M.A. McGehee. 1983. Turtles, birds, and mammals in the northern Gulf of Mexico and nearby Atlantic waters. U.S. Fish and Wildlife Service, Division of Biological Services, Washington, D.C.
- Fuller, D.A. and A.M. Tappan. 1986. The occurrence of sea turtles in Louisiana coastal waters. Coastal Fisheries Institute. Center for Wetland Resources. Louisiana State University. Baton Rouge, LA.
- Teas, Wendy, G. 1995. 1994 Semi-annual Report of the Sea Turtle Stranding and Salvage Network. Atlantic and Gulf Coasts of the United States. January - June 1994. National Marine Fisheries Service. Southeast Fisheries Center, Miami Laboratory, 75 Virginia Beach Drive, Miami, FL.
- U.S. Department of the Interior. Minerals Management Service. 1997. Final Environmental Impact Statement. Gulf of Mexico Sales 169, 172, 175, 178 and 182: Central Planning Area. OCS EIS/EA MMS 97-0033. Washington, D.C. Available from NTIS, Springfield, VA.
- U.S. Department of the Interior. Minerals Management Service. 1998. Final Environmental Impact Statement. Gulf of Mexico Sales 171, 174, 177, and 180: Western Planning Area. OCS EIS/EA MMS 97-0033. Washington, D.C. Available from NTIS, Springfield, VA.
- U.S. Department of the Interior. Minerals Management Service. 1987. Programmatic Environmental Assessment. Structure-removal activities Central and Western Gulf of Mexico Planning Areas. OCS/EA 87-0002. Gulf of Mexico OCS Region, New Orleans, LA.

## VII. PREPARERS

Author: Michael B. Wallace - Environmental Protection Specialist

Typist: Joanne Waite - Secretary



VIII. APPENDIX

OEDC EXPLORATION & PRODUCTION, L.P. CORRESPONDENCE

Jerry  
MS 5440

UNITED STATES GOVERNMENT  
MEMORANDUM

5/13/99

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: OEDC

MAY 18 1999

Control No. 99-068

PLATFORM	AREA/BLOCK	LEASE
<u>Caiss. # 2</u>	<u>VK 117</u>	<u>OCS-66872</u>
_____	_____	_____
_____	_____	_____

**BEST AVAILABLE COPY**

Shore Base: Theodore, Alabama

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/ ~~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.

Hang sites None

Turtles None

Enclosure

cc:

Arvind Shah  
Felix Dyhrkopp

105'  
Dist 23.5  
W-453

MAY 20 1999

WB

Dist 11.6  
ref to a  
form

# OEDC EXPLORATION & PRODUCTION, L.P.

May 12, 1999

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



Attention: Mr. Arvind Shah  
Mail Stop 5210

RE: Proposed OCS Platform Removal Application  
Lease OCS-G 6872, Caisson No. 2, Viosca Knoll Block 117  
OCS Federal Waters, Gulf of Mexico, Offshore, Alabama

Gentlemen:

In accordance with regulations contained in Title 30 CFR 250.913, OEDC Exploration & Production, L.P. (OEDC) hereby submits in triplicate, an application with supporting documentation covering the proposed abandonment of Caisson No. 2, Viosca Knoll Block 117, Offshore, Alabama.

The proposed platform removal operations are scheduled to commence on June 1, 1999 dependent upon obtaining all permits and clearances required and scheduling of contractor personnel.

Should you have any questions or requests for additional information, please contact the undersigned or our regulatory consultant, Cathy Thornton, J. Connor Consulting, Inc., at (281) 578-3388.

Sincerely,

OEDC EXPLORATION & PRODUCTION, L.P.

A handwritten signature in cursive script that reads "Joseph L. Savoy, cat".

Joseph L. Savoy  
Manager of Offshore Operations

**BEST AVAILABLE COPY**

JSL:CAT  
Enclosure

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**PROPOSED OCS PLATFORM REMOVAL**

**I. RESPONSIBLE PARTY**

A. Lease Operator Name: OEDC Exploration & Production, L.P.  
B. Address: 1400 Woodloch Forest Drive; Suite 200  
The Woodlands, Texas 77380  
C. Contact Person & Telephone Number: Mr. Joe Savoy (713) 364-0033

**II. IDENTIFICATION OF STRUCTURE TO BE REMOVED**

A. Platform Name: Caisson No. 2  
B. Location (Lease, Area, Block, and Block Coordinates) Lease OCS-G 6872  
Viosca Knoll Block 117  
Latitude: 29°53'27.877" Longitude: 88°14'10.180"  
C. Date Installed (Year): 1996  
D. Proposed Date of Removal (Month/Year): June, 1999  
E. Water Depth: 109'  
F. Onshore Support Base: Theodore, Alabama

**III. DESCRIPTION OF STRUCTURE TO BE REMOVED**

A. Configuration: See attached drawing  
B. Size: 66" x 48" tapered caisson  
C. Number of Legs/Casings/Pilings: 1  
D. Diameter and Wall Thickness of Legs/Casings/Pilings:  
Caisson: 66" x 2.25" OD (Max @ mudline) 48" x 2.0" (above 66')  
Casing: See attached Sundry Notice-Intent for the proposed P&A of Well No. 2  
E. Are Piles Grouted? NA Inside or Outside? Outside  
F. Brief description of soil composition and condition: Loose sandy soil with little to no compaction to about 100' BML. Then stiff clays to approximately 170' BML. Then sand

**IV. PURPOSE**

Brief discussion of the reason for removing the structure: Production depleted. Lease expired.

**BEST AVAILABLE COPY**

**V. REMOVAL METHOD**

A. Brief description of the method used: Mechanical cutter @ minimum of 15' BML

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

- 1. Kind of Explosives: None
- 2. Number and Sizes of Charges: N/A
  - a. Single Shot or Multiple Shots: N/A
  - b. If multiple shots, sequence and timing of detonations: N/A
- 3. Bulk or Shaped Charge: N/A
  - a. Depth of Detonation Below Mud Line: N/A
  - b. Inside or Outside Piling: N/A

C. Pre-Removal Monitoring Techniques

- 1. Is the use of scare charges or acoustic devices proposed: No  
If yes, provide the following:
  - a. Number and Kind: N/A
  - b. Size of Charges: N/A
  - c. Brief description of how, where, and when scare charges or acoustic devices will be used: N/A
- 2. Will divers or acoustic devices be used to conduct a pre-removal survey to detect presence of turtles and marine mammals: No  
If yes, briefly describe the proposed detection method: N/A

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: No

**VI. BIOLOGICAL INFORMATION**

If available, provide the results of any recent biological surveys conducted in the vicinity of the structure.

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

None observed

**BEST AVAILABLE COPY**

MINERALS MANAGEMENT SERVICE  
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with  
one copy marked "Public Information."

OMB No. 1010-0045  
Expiration Date: August 31, 1996

1. ORIGINAL <input checked="" type="checkbox"/> CORRECTION _____	2. API WELL NUMBER/PRODUCING INTERVAL COD 60-816-40144	3. WELL NO. 002	11. OPERATOR NAME AND ADDRESS (Submitting Office) OEDC E & P, L.P.
8. FIELD NAME VK 74	9. UNIT NUMBER NA	10. MMS OPERATOR NUMBER 01767	1400 WOODLOCH FOREST DR. SUITE 200 THE WOODLANDS, TX 77380

WELL AT TOTAL DEPTH

4. LEASE NUMBER G 6872	5. AREA NAME VK	6. BLOCK NUMBER 117	7. OPD NUMBER NH 16-07
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32. TYPE OF SUBMITTAL REQUEST APPROVAL <input checked="" type="checkbox"/> SUBSEQUENT REPORT _____	33. PROPOSED OR COMPLETED WORK ACIDIZE _____ FRACTURE _____ PLUG BACK _____ WORKOVER _____ ALTER CASING _____ INITIAL COMPLETION _____ PULL CASING _____ OTHER _____ ARTIFICIAL LIFT _____ MULTI-COMPLETION _____ RECOMPLETION _____ CHANGE ZONE _____ PERFORATE _____ SIDETRACK _____ DEEPEN _____ PERM ABANDONMENT <input checked="" type="checkbox"/> TEMPORARY ABANDONMENT _____	34. WELL STATUS/ TYPE CODE TA
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WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed) N00103E02559	13. LEASE NUMBER G 6872	14. AREA NAME VK	15. BLOCK NO. 117	16. OPD NUMBER NH 16-07
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35. SURVEY BASE NAD 27 <input checked="" type="checkbox"/> NAD 83 _____	18. WATER DEPTH (Surveyed) 105'	19. ELEVATION AT KB (Surveyed) 100'	20. RIG NAME NA	17. RIG TYPE WL
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36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

SEE ATTACHED PROCEDURE WITH WELLBORE SCHEMATIC

**BEST AVAILABLE COPY**

26. CONTACT NAME CATHY THORNTON	27. TELEPHONE NUMBER (281) 578-3388
------------------------------------	----------------------------------------

28. AUTHORIZING OFFICIAL (Type Name) JOSEPH L. SAVOY	29. TITLE MANAGER OF OFFSHORE OPERATIONS
---------------------------------------------------------	---------------------------------------------

30. AUTHORIZING SIGNATURE <i>Joseph L. Savoy, cat</i>	31. DATE 990512
----------------------------------------------------------	--------------------

THIS SPACE FOR MMS USE ONLY

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_  
DATE \_\_\_\_\_

**PAPERWORK REDUCTION ACT STATEMENT:** The Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et seq.) requires us to inform you that this information is being collected to obtain knowledge of equipment and procedures to be used during well-completion, workover, and production operations. This information will be used by the District Supervisor to evaluate and approve or disapprove the adequacy of the equipment and procedures to safely perform the proposed operations. Response to this request is mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.18.

Public reporting burden for this form is estimated to average 1 hour per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 2053, Minerals Management Service, 381 Elden Street, Herndon, VA 22070-4817; and Office of Management and Budget, Paperwork Reduction Project (OMB No. 1010-0045), Washington, DC 20503

OCS-G 6872 WELL NO. 2  
VIOUCA KNOLL BLOCK 117  
VIOUCA KNOLL BLOCK 74 FIELD

P&A GENERAL PROCEDURE

05/11/99

1. Mobilize 200 Class lift boat with 100 ton crane. Spot boat and jack up to operating elevation.
2. Check and record casing pressure and all annular pressures. Remove 12' x 12' deck (constructed of two clamped halves with no heliport). Remove master valve. Nipple up and test 7-1/16" BOP's - 250/1,500 psi (MASP = 1,125 psi). Mix 9.0 ppg salt water. RU pump and tank.
3. Test production-surface casing annulus with 400 psi (1.5 ppg EMW above 10 3/4" surface casing fracture gradient). If annulus does not test, bullhead 200' cement plug (60 sx.) into annulus, placing TOC below 300' (>100' BML). Test as before. Re-squeeze or (after Step No. 5) perforate holes in 7" casing and circulate cement plug until holds 400 psi.
4. GIH, PU 2-3/8" 4.7 ppg, EUE 8 rd. tubing to top of sand at 209'. Wash sand to top of BJ retrievable bridge plug at 250'. POH. PU overshot, GIH, and pull plug. POH with plug.
5. GIH with tubing open-ended to top of CIBP at 3,018'. Spot 100' cement plug (25 sx.). Test with 1,000 psi. POH to ±600'.
6. Spot 100' gelled pill. POH to ±500'. Spot 200' cement plug (45 sx.), placing TOC at 295' (100' BML). POH. ND BOP's.
7. Cut and pull 7" production casing at 220' (25' BML).
8. Cut and pull 10 3/4" surface casing and 24" drive pipe at 220' (25' BML).
9. Cut and pull 48" x 66" caisson at 210' (15' BML).
10. Release lift boat.
11. Conduct bottom search.

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OEDC EXPLORATION & PRODUCTION, L.P.

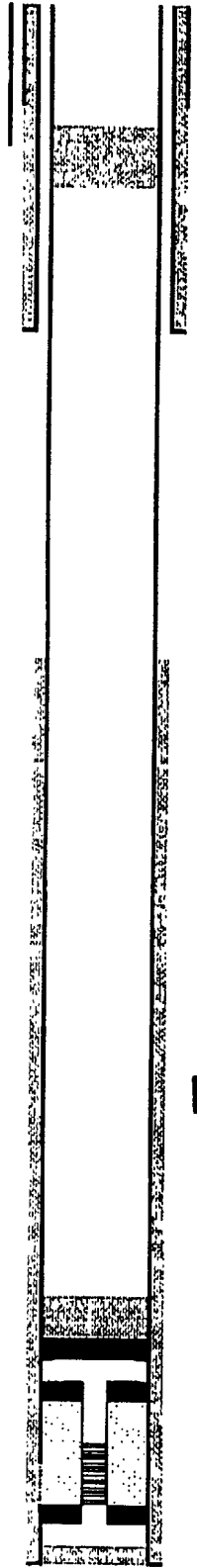
PROPOSED WELL SCHEMATIC

Elevations:  
 WD 110.00'  
 RKB-MSL 85.00'  
 RKB-THF 54.58'

Cut 7", 10 1/4", & 24" casings 25' BML  
 Cut 48" X 66" Caisson 15' BML

Production Tubing:  
 None

Wellbore Fluid: 9.0 ppg CaCl<sub>2</sub>



24" 0.625" WT at 276' (76' SP)

48" x 66" Caisson at 312'

200' Cement Plug 295' - 495' with TOC = 100' BML

10 1/2" 40.5 ppg, K-55, STC at 1,700' MD / 1,502' TVD

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TOC = 2,918' MD

CIBP at 3,018' MD / 2,190' TVD

Guiberson Model Uni X GP Packer at 3,267' (Milled)

Guiberson Magnum Packer at 3,416'

7" 28.0 & 23.0 ppg, K-35, LTC at 3,740'

2,400' Sand Prod. Perfs.: 3,358' - 3,400' MD  
 2,360' - 2,383' TVD

TD = 3,740' MD / 2,550' TVD

REV.	DATE

OCS-G 6872 WELL NO. 2  
 VIOSCA KNOLL BLOCK 117  
 VIOSCA KNOLL BLOCK 74 FIELD  
 PROPOSED WELL SCHEMATIC

DRAWN BY HAL BUTTS  
 APP'D  
 SCALE NTS  
 DATE 03/05/99

SHEETS SHEET



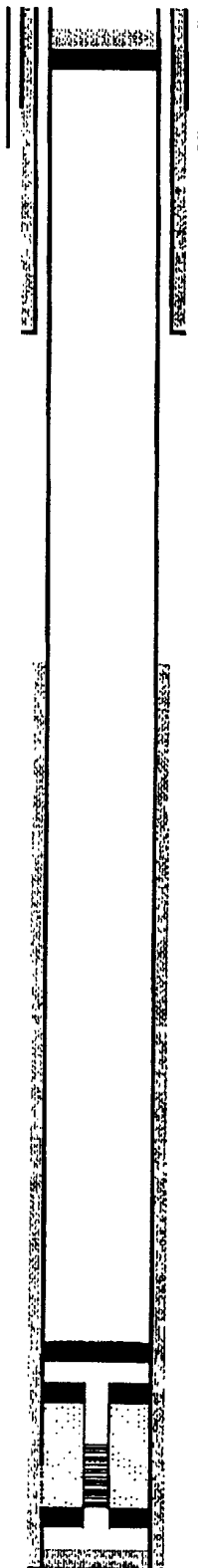
OEDC EXPLORATION & PRODUCTION, L.P.

CURRENT WELL SCHEMATIC

Elevations:  
 WD 110.00'  
 RKB-MSL 85.00'  
 RKB-THF 54.58'

Production Tubing:  
 None

Wellbore Fluid: 9.0 ppg CaCl<sub>2</sub>



Top of Sand = 209'  
 Retrievable Bridge Plug at 250' with 41' sand on top

24" 9.625" WT at 276' (76' SP)

48" x 66" Caisson at 312'

10 1/2" 40.3 ppf, K-55, STC at 1,700' MD / 1,502' TVD

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CIBP at 3,018' MD / 2,190' TVD

Guberson Model Uni X GP Packer at 3,287' (Milled)

2,400' Sand Prod. Perfs.: 3,358' - 3,400' MD  
 2,360' - 2,383' TVD

Guberson Magnum Packer at 3,416'

7" 20.0 & 23.0 ppf, K-55, LTC at 3,740'

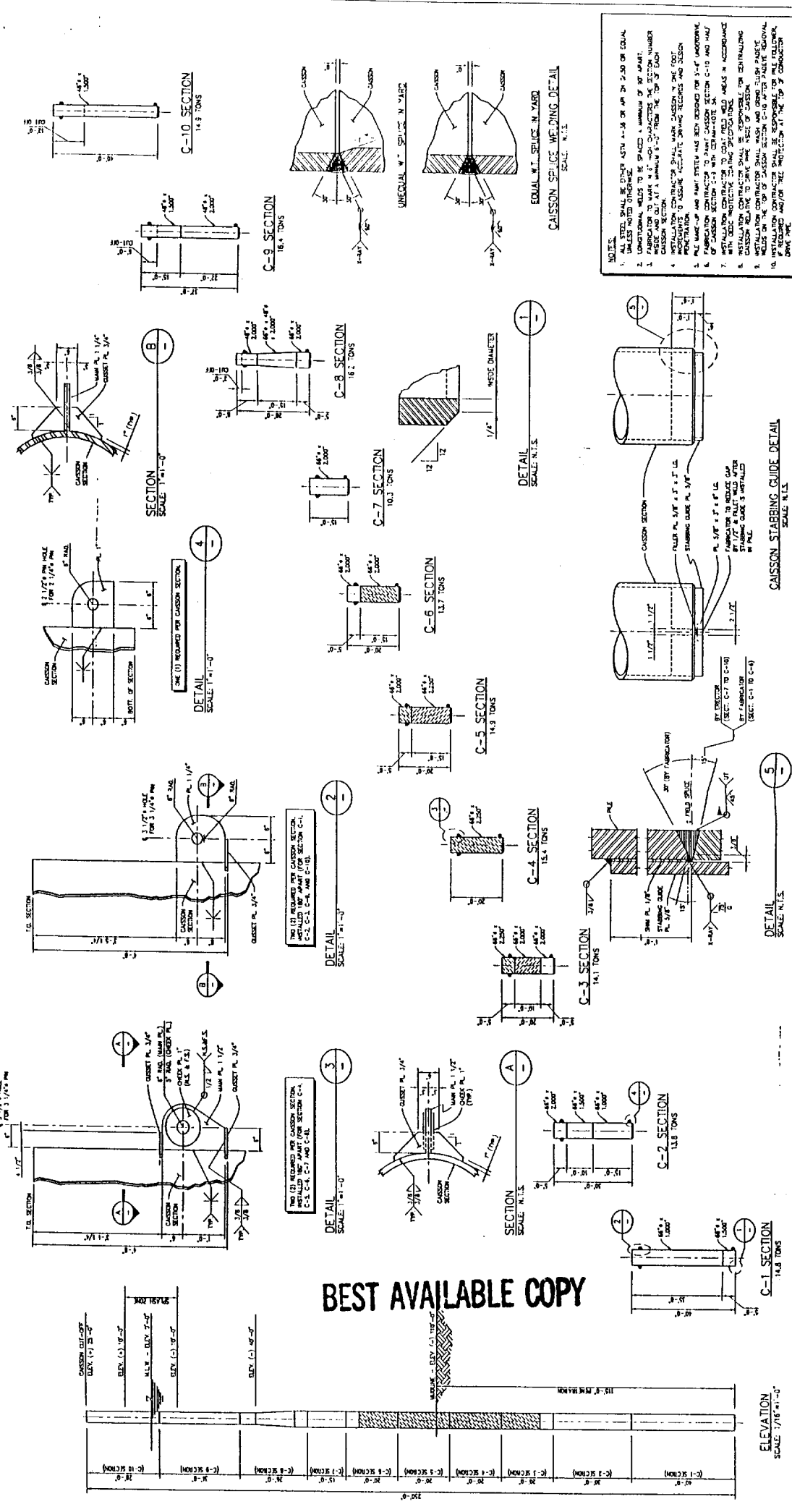
TD = 3,740' MD / 2,530' TVD

REV.	DATE

OCS-G 8872 WELL NO. 2  
 VIOSCA KNOLL BLOCK 117  
 VIOSCA KNOLL BLOCK 74 FIELD  
 CURRENT WELL SCHEMATIC

DRAWN BY HAL BUTTS  
 APP'D  
 SCALE NTS  
 DATE 03/05/99

SHEETS SHEET



**NOTES:**

1. ALL DIMENSIONS SHALL BE TO CENTER UNLESS OTHERWISE SPECIFIED.
2. LONGITUDINAL JOINTS TO BE SPACED A MINIMUM OF 30' APART.
3. FABRICATOR TO MARK ALL 4" x 4" DIMENSIONS THE SECTION NUMBER AND SECTION AT A MINIMUM 8" FROM THE TOP OF EACH CAISSON SECTION.
4. INSTALLATION CONTRACTOR SHALL MARK CAISSON WITH DIMENSIONS TO CENTER OF GRAVITY AND SHALL BE RESPONSIBLE FOR ACCURATE DIMENSIONS AND DESIGN.
5. ALL WELDING SHALL BE DONE IN ACCORDANCE WITH THE WELDING SPECIFICATIONS FOR STRUCTURAL STEEL.
6. FABRICATOR CONTRACTOR SHALL BE RESPONSIBLE FOR CENTRALIZING ALL CAISSON SECTIONS TO THE CENTER OF GRAVITY.
7. ALL DIMENSIONS SHALL BE TO CENTER UNLESS OTHERWISE SPECIFIED.
8. ALL DIMENSIONS SHALL BE TO CENTER UNLESS OTHERWISE SPECIFIED.
9. ALL DIMENSIONS SHALL BE TO CENTER UNLESS OTHERWISE SPECIFIED.
10. INSTALLATION CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING:
  - a. TO MARK ALL DIMENSIONS TO CENTER OF GRAVITY.
  - b. TO MARK ALL DIMENSIONS TO CENTER OF GRAVITY.
  - c. TO MARK ALL DIMENSIONS TO CENTER OF GRAVITY.

**BEST AVAILABLE COPY**

NO.	REV.	DATE	BY	CHK.	DESCRIPTION
1					ISSUED FOR PERMITS
2					FOR CONSTRUCTION
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**OECD EXPLORATION & PRODUCTION, L.P.**  
 WISCA KNOLL BLVD. 117A - SINGLE-WELL CAISSON  
 HOUSTON, TEXAS 77058-1170  
 SCALE: 1/16" = 1'-0"  
 DATE: 11/15/88  
 DRAWN BY: J. W. HARRIS  
 CHECKED BY: J. W. HARRIS  
 APPROVED BY: J. W. HARRIS

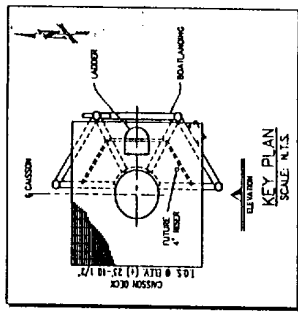
**MPC** INTERNATIONAL, Inc.  
 HOUSTON, TEXAS  
 SCALE: 1/16" = 1'-0"  
 DATE: 11/15/88  
 DRAWN BY: J. W. HARRIS  
 CHECKED BY: J. W. HARRIS  
 APPROVED BY: J. W. HARRIS

**CAISSON STABBING GUIDE DETAIL**  
 SCALE: 1/16" = 1'-0"  
 DATE: 11/15/88  
 DRAWN BY: J. W. HARRIS  
 CHECKED BY: J. W. HARRIS  
 APPROVED BY: J. W. HARRIS

**EQUAL W.T. SPURCE WELDING DETAIL**  
 SCALE: 1/16" = 1'-0"  
 DATE: 11/15/88  
 DRAWN BY: J. W. HARRIS  
 CHECKED BY: J. W. HARRIS  
 APPROVED BY: J. W. HARRIS

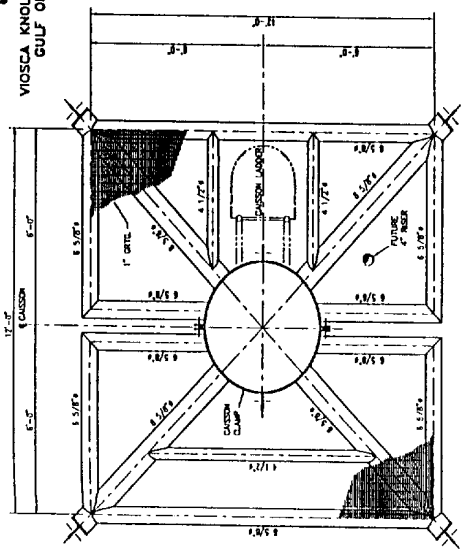
**SECTION**  
 SCALE: 1/16" = 1'-0"  
 DATE: 11/15/88  
 DRAWN BY: J. W. HARRIS  
 CHECKED BY: J. W. HARRIS  
 APPROVED BY: J. W. HARRIS

**ELEVATION**  
 SCALE: 1/16" = 1'-0"  
 DATE: 11/15/88  
 DRAWN BY: J. W. HARRIS  
 CHECKED BY: J. W. HARRIS  
 APPROVED BY: J. W. HARRIS



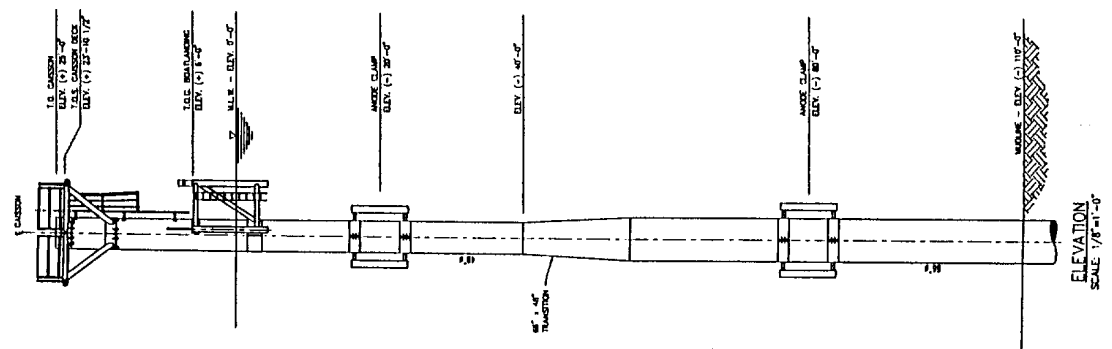
COMPONENT WEIGHTS	
ITEM	WEIGHT (S.F. 100(S))
MAIN DECK/SUPPORTING FRAME	4
66" x 48" CAISSON	159
BOATLANDING	3

VIOSCA KNOLL - BLK. 117  
GULF OF MEXICO



CAISSON DECK FRAMING PLAN  
I.O.S. AT ELEV. (+) 23'-10 1/2"  
SCALE: 1/2" = 1'-0"

SEP 19 1975



ELEVATION  
SCALE: 1/8" = 1'-0"

BEST AVAILABLE COPY

NO.	REVISION	DATE	BY	CHKD BY	DESCRIPTION
1	ISSUED FOR CONSTRUCTION				
2	ISSUED FOR GENERAL NOTES				
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OEDC EXPLORATION & PRODUCTION, L.P.  
VIOSCA KNOLL BLOCK 117A - SINGLE-CELL CAISSON  
PROJECT  
DATE  
SCALE  
GENERAL ARRANGEMENT  
NO. 54-V-ST-300  
REV. 15-878

MPC INTERNATIONAL, Inc.  
Houston, Texas  
DATE  
SCALE  
GENERAL ARRANGEMENT  
NO. 54-V-ST-300  
REV. 15-878

FOR GENERAL NOTES REFER TO DRAWING 54-V-ST-100  
SCALE: 1/8" = 1'-0"