

UNITED STATES GOVERNMENT
MEMORANDUM


August 6, 2003

To: Public Information (MS 5034)
From: Plan Coordinator, FO, Plans Section (MS 5231)

Subject: Public Information copy of plan
Control # - S-06234
Type - Supplemental Development Operations Coordinations Document
Lease(s) - OCS-G22705 Block - 146 Ship Shoal Area
Operator - Bois d'Arc Offshore Ltd.
Description - Caisson 003 & Well No. 003
Rig Type - Not Found

Attached is a copy of the subject plan.

It has been deemed submitted as of this date and is under review for approval.


Michelle Griffitt
Plan Coordinator

Site Type/Name	Botm Lse/Area/Blk	Surface Location	Surf Lse/Area/Blk
CAIS/003		2517 FSL, 2319 FEL	G22705/SS/146
WELL/003	G22705/SS/146	2517 FSL, 2319 FEL	G22705/SS/146

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PUBLIC COPY

July 31, 2003

**SUPPLEMENTAL DEVELOPMENT OPERATIONS
COORDINATION DOCUMENT**

Lease Number (s): OCS-G 22705
Area/Block: Ship Shoal 146
Prospect Name: N/A
Offshore: Louisiana

Submitted by: Bois d'Arc Offshore Ltd.
Chase Tower
600 Travis, Suite 6275
Houston, Texas 77002

Greg Martin
(713) 228-0438 (X21)
gmartin@boisdarcoffshore1.com

Estimated start up date: August 25, 2003

CONTROL No. <u>S-6234</u>
REVIEWER: Michelle Griffitt
PHONE: (504) 736-2975

Authorized Representative:
Valerie Land
J. Connor Consulting, Inc.
16225 Park Ten Place, Suite 700
Houston, Texas 77084
(281) 578-3388
valerie.land@jccteam.com

No. Copies Being Submitted:
Proprietary: 5
Public Info: 4

For MMS:
Plan No. S-6234
Assigned to: _____

BOIS D'ARC OFFSHORE LTD.

SUPPLEMENTAL

DEVELOPMENT OPERATIONS COORDINATION DOCUMENT

LEASE OCS-G 22705

SHIP SHOAL 146

APPENDIX A	<i>Contents of Plan</i>
APPENDIX B	<i>General Information</i>
APPENDIX C	<i>Geological, Geophysical & H₂S Information</i>
APPENDIX D	<i>Biological Information</i>
APPENDIX E	<i>Wastes and Discharge Information</i>
APPENDIX F	<i>Oil Spill Information</i>
APPENDIX G	<i>Air Emissions Information</i>
APPENDIX H	<i>Environmental Impact Analysis</i>
APPENDIX I	<i>Coastal Zone Management Consistency Information</i>
APPENDIX J	<i>Plan Information Form</i>

APPENDIX A CONTENTS OF PLAN

Bois d'Arc Offshore Ltd. is the designated operator of the subject oil and gas lease.

(A) DESCRIPTION, OBJECTIVES AND SCHEDULE

This DOCD provides for installation of a well deck and boatland over the existing Caisson No. 003, installation of a lease term pipeline, and commencement of production from the target sands as detailed in APPENDIX C of this DOCD. Well No. 003 was drilled and completed under a previously approved Exploration Plan (Control No. N-7701).

Appendix J contains an Plan Information Form, which provides a description of proposed activities, objectives and a tentative schedule.

(B) LOCATION

Included as *Attachment A-1* is a map showing the existing well surface and bottom hole location and the water depth. Additional well information is included in Appendix J, on the Plan Information Form.

(C) PRODUCTION FACILITIES

The existing Well No. 3 is currently protected by a caisson well protector structure designated as Caisson No. 3. Bois d'Arc proposes to add a well deck and boatlanding to the structure. A schematic of the proposed structure is included as *Attachment A-2*.

Bois d'Arc will not be installing any processing equipment on this structure.

A 3" gas/condensate lease term pipeline will be installed to transport full stream production from Caisson No. 003 to Platform "A", all being located in this same block. No new near shore or onshore pipelines or facilities will be constructed.

The facility will be designed, installed and operated in accordance with current regulations, engineering documents incorporated by reference, and industry practice in order to ensure protection of personnel, environment and the facilities. When necessary, maintenance or repairs that are necessary to prevent pollution of offshore waters shall be undertaken immediately.

SS133

GRID NORTH

CAISSON "A"

Century 6" S-1948

SS146
OCS-G-22705
BOIS d'ARC

Bole d'Arc 6" S-14030

Tona Expl. 4" S-14019

W&I 3" S-7678
(Aband.)
TETCO 6" S-6986
(Aband.)

Unocal 18" S-1196

Bole d'Arc 3" S-14235
Permitted

TETCO 6" S-14035

#3 SURFACE

LOCATIONS

LOC'N.	CALLS		X COORDINATE	Y COORDINATE	LATITUDE	LONGITUDE	WD	MD	TVD
#3 SURFACE	2,517.12' FSL	2,319.37' FEL	2,091,280.63'	18,416.81'	28° 43' 01.187"N	91° 02' 55.045"W	43'		

**PUBLIC
INFORMATION**

Bois d'Arc Offshore LTD.

**SUPPLEMENTAL
DEVELOPMENT & PRODUCTION PLAN**

OCS-G-22705
BLOCK 146 SHIP SHOAL AREA
GULF OF MEXICO

FUGRO CHANCE INC. 
200 Dulles Dr. Lafayette, Louisiana 70506-5001 (537) 237-1300

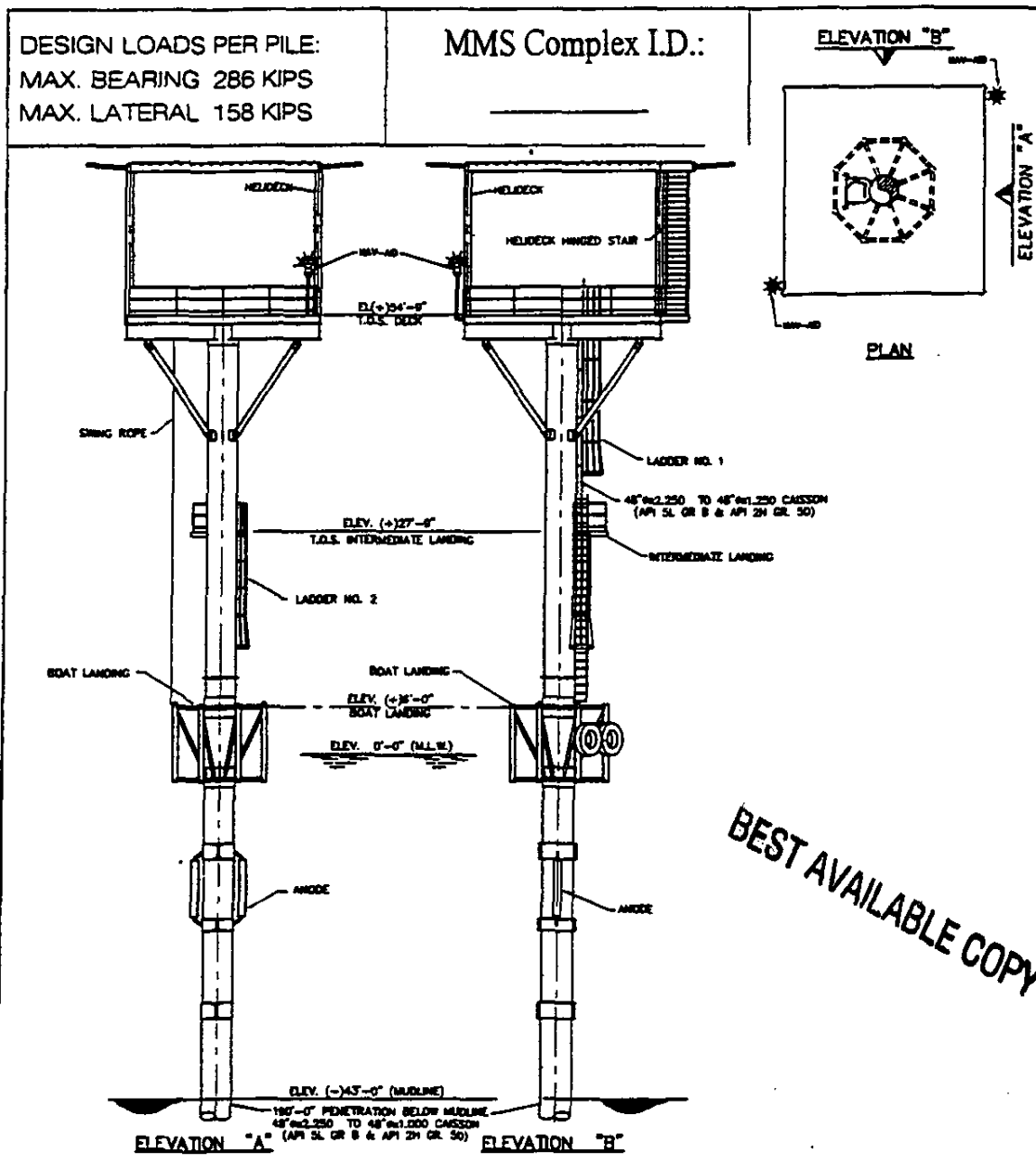
GEODETTIC DATUM: NAD27
PROJECTION: LOUISIANA SOUTH
GRID UNITS: US SURVEY FEET

SCALE 0 2,000'
IN FEET 

Job No.: 03-2527 Date: 7/21/03 Drwn: RDT Chart: Of: 1 1

Printed: 7/21/03

Dwgfile: O:\CADBASE\WPERMIT\LASOUTH\SS\Permit\146sdpp



Bois d'Arc offshore, Ltd. certifies that the design of this platform structure has been certified by a registered professional structural engineer or a civil engineer specializing in structural design, and the and the platform structure will be fabricated, installed and maintained as described in the application and any approved modification thereto. Certified design and as-built plans and specifications will be on file at Bois d'Arc Offshore, Ltd. in Houston, Texas.

APPLICATION BY:
 COMPANY BOIS d'ARC OFFSHORE, LTD.
 SIGNATURE *Wayne L. Lauffer*
 TITLE MANAGER DATE May 22, 2003

PRODUCTION PLATFORM
 LEASE NO. OCS-G-22705 BLOCK NO. 146 No. 3 S.T.01
 AREA SHIP SHOAL SHEET 1 OF 1

Petronyx CAD File No. 03A5B7MMSPP

APPENDIX B GENERAL INFORMATION

(A) CONTACT

Inquiries may be made to the following authorized representative:

Valerie Land
J. Connor Consulting, Inc.
16225 Park Ten Place, Suite 700
Houston, Texas 77084
(281) 578-3388
E-mail address: valerie.land@jccteam.com

(B) PROJECT NAME

Bois d'Arc does not use project names.

(C) PRODUCTION RATES AND LIFE OF RESERVOIR

Type of Production	Average Estimated Rates	Estimated Peak
1) Crude Oil		
2) Gas		
3) Condensate		
Estimated Life of the Reservoir =		

(D) NEW OR UNUSUAL TECHNOLOGY

Bois d'Arc does not propose to use any new or unusual technology to carry out the proposed development/production activities. New or unusual technology is defined as equipment and/or procedures that:

1. Function in a manner that potentially causes different impacts to the environment than the equipment or procedures did in the past;
2. Have not been used previously or extensively in an MMS OCS Region;
3. Have not been used previously under the anticipated operating conditions; or
4. Have operating characteristics that are outside the performance parameters established by 30 CFR 250.

(E) BONDING INFORMATION

The bond requirements for the activities and facilities proposed in this DOCD are satisfied by \$3,000,000 area wide bond, furnished and maintained according to 30 CFR 256, subpart I; NTL No. N2000-G16, "Guidelines for General Lease Surety Bonds", dated September 7, 2000.

(F) ONSHORE BASE AND SUPPORT VESSELS

A Vicinity Map is included as *Attachment B-1* showing Ship Shoal 146 located approximately 23.5 miles from the nearest shoreline and approximately 59.3 miles from the onshore support base in Fourchon, Louisiana.

The existing onshore base provides 24-hour service, a radio tower with a phone patch, dock space, equipment, and supply storage area, drinking and drill water, etc. The base serves as a loading point for tools, equipment, and machinery, and temporary storage for materials and equipment. The base also supports crew change activities. The proposed operations do not require expansion or major modifications to the base.

During the proposed activities, support vessels/helicopters and travel frequency are as follows:

Type	Weekly Estimate (No.) of Roundtrips	
	Drilling	Production Operations
Crew Boat	NA	7
Supply Boat	NA	1
Helicopter	NA	0

The most practical, direct route from the shorebase as permitted by the weather and traffic conditions will be utilized.

(G) LEASE STIPULATIONS

The following lease stipulations are attached to OCS-G 22705, Ship Shoal 146.

1. Military Warning Area (MWA)

Ship Shoal 146 is located within designated MWA-59. The Naval Air Station JRB in New Orleans will be contacted in order to coordinate and control the electromagnetic emissions during the proposed operations.

ARCHAEOLOGY SURVEY BLOCKS

Ship Shoal 146 has been determined as potentially containing prehistoric archaeological properties.

Review of the data obtained during the shallow hazard study does not indicate the presence of any historic period shipwrecks.

(H) RELATED OCS FACILITIES AND OPERATIONS

The proposed 3" gas/condensate lease term pipeline will depart Caisson No. 3 and travel in a northerly direction approximately 11,500' to Platform "A", all being located in Ship Shoal Block 146. The subject pipeline is designed for a maximum flowrate of 15 MMCF/D of gas and 1000 bbls of condensate. The shut-in time of this pipeline is 15 minutes.

The well deck and boatlanding will be installed with a derrick barge with a 2000' anchor radius.

(I) TRANSPORTATION INFORMATION

Once separated and measured, the gas/condensate production will depart Platform "A" via an existing pipeline to a subsea tie-in point on Tennessee Gas Pipeline's 26" pipeline in Ship Shoal Block 133. No new transportation lines will be constructed/installed as a result of these operations.

APPENDIX C
GEOLOGICAL, GEOPHYSICAL, AND H₂S INFORMATION

(A) STRUCTURE CONTOUR MAPS

Current structure contour maps drawn to the top of each productive hydrocarbon sand, showing the entire lease block the location of each proposed well, and the locations of geological cross-sections are included as *Attachment C-1 and C-2*.

(B) HYDROGEN SULFIDE INFORMATION

By letter dated April 22, 2003, MMS classified Ship Shoal Block 146 as absent of Hydrogen Sulfide.

APPENDIX D BIOLOGICAL INFORMATION

CHEMOSYNTHETIC INFORMATION

This DOCD does not proposed activities that could disturb seafloor areas in water depths of 400 meters (1312 feet) or greater, therefore chemosynthetic information is not required.

TOPOGRAPHIC FEATURES INFORMATION

The activities proposed in this plan will not take place within 500 feet of any identified topographic feature, therefore topographic features information is not required.

LIVE BOTTOM (PINNACLE TREND) INFORMATION

Ship Shoal 146 is not located within 100 feet of any pinnacle trend feature with vertical relief equal to or greater than 8 feet; therefore, live bottom information is not required.

APPENDIX E WASTES AND DISCHARGES INFORMATION

DISCHARGES

All discharges associated with operations proposed in this Development Operation Coordination Document will be in accordance with regulations implemented by Minerals Management Service (MMS), U. S. Coast Guard (USCG) and the U.S. Environmental Protection Agency (EPA).

For disposed wastes, the type and general characteristics of the wastes, the amount to be disposed of (volume, rate, or weight), the daily rate, the name and location of the disposal facility, a description of any treatment or storage, and the methods for transporting and final disposal are provided in tabular format in *Attachment E-1*. For purposes of this Appendix, disposed wastes describes those wastes generated by the proposed activities that are disposed of by means other than by releasing them in to the waters of the Gulf of Mexico at the site where they are generated. These wastes can be disposed of by offsite release, injection, encapsulation, or placement at either onshore or offshore permitted locations for the purpose of returning them back to the environment.

Waste and Discharges Information

Disposal Table Example (Wastes to be disposed of, not discharged)

Type of Waste Approximate Composition	Amount*	Rate per Day	Name/Location of Disposal Facility	Treatment and/or Storage, Transport and Disposal Method
Spent oil-based drilling fluids and cuttings	NA	NA		
Spent synthetic-based drilling fluids and cuttings	NA	NA		
Oil-contaminated produced sand	25 bbl/yr		Newpark Environmental Fannett, Texas	Transport to shore in 25 bbl cutting boxes and truck to disposal facility.
Waste Oil	24 gal/yr	2 gal/month	Newpark Environmental Fannett, Texas	
Produced water	NA	NA		
Norm-contaminated wastes	NA	NA		
Trash and debris	6 yd/year	0.5 yd/3 months		
Chemical product wastes	NA	NA		
Workover fluids	200 bbl/well		U.S. Liquids Fourchon, Louisiana	Transport to shore in 25 bbl pill tanks and truck to disposal facility.

*Can be expressed as a volume, weight, or rate

APPENDIX F OIL SPILL INFORMATION

1. REGIONAL OSRP INFORMATION

Bois d'Arc Offshore Ltd. is the only entity covered in their Regional Oil Spill Response Plan (OSRP) approved on June 18, 2003. Activities proposed in this DOCD will be covered by the Regional OSRP. *modified 7/1/03*

2. OSRO INFORMATION

Bois d'Arc's primary equipment provider is Clean Gulf Associates (CGA). The Marine Spill Response Corporation's (MSRC) STARS network will provide closest available personnel, as well as an MSRC supervisor to operate the equipment.

3. WORST-CASE SCENARIO COMPARISON

Category	Regional OSRP WCD	DOCD WCD
Type of Activity	Production	Production
Facility Location (Area/Block)	South Pelto Block 22	Ship Shoal Block 146
Facility Designation	Platform A	Caisson No. 3
Distance to Nearest Shoreline (miles)	13	23.5
Volume		
Storage tanks (total)	1000	0
Flowlines (on facility)	150	50
Lease pipelines	150	100
Uncontrolled blowout	3400	250
Total Volume	4700	400
Type of Oil(s) (crude, condensate, diesel)	<i>Condensate</i>	Condensate
API Gravity		47.1°

Bois d'Arc has determined that the worst-case scenario from the activities proposed in this DOCD does not supercede the worst-case scenario from our approved regional OSRP for far-shore production activities.

Since Bois d'Arc has the capability to respond to the worst-case spill scenario included in its regional OSRP approved on June 18, 2003, and since the worst-case scenario determined for our DOCD does not replace the worst-case scenario in our regional OSRP, I hereby certify that Bois d'Arc has the capability to respond, to the maximum extent practicable, to a worst-case discharge, or a substantial threat of such a discharge, resulting from the activities proposed in our DOCD.

APPENDIX G AIR EMISSIONS INFORMATION

AIR EMISSIONS INFORMATION

Screening Questions for DOCD's	Yes	No
Is any calculated Complex Total (CT) Emission amount (tons) associated with your proposed exploration activities more than 90% of the amounts calculated using the following formulas: $CT = 3400D^{2/3}$ for CO, and $CT = 33.3D$ for the other air pollutants (where D = distance to shore in miles)?		X
Do your emission calculations include any emission reduction measures or modified emission factors?		X
Does or will the facility complex associated with your proposed development and production activities process production from eight or more wells?		X
Do you expect to encounter H ₂ S at concentrations greater than 20 parts per million (ppm)?		X
Do you propose to flare or vent natural gas in excess of the criteria set forth under 250.1105(a)(2) and (3)?		X
Do you propose to burn produced hydrocarbon liquids?		X
Are your proposed development and production activities located within 25 miles from shore?	X	
Are your proposed development and production activities located within 200 kilometers of the Breton Wilderness Area?		X

Summary Information

There are no existing facilities or activities co-located with the currently proposed activities, therefore the Complex Total Emissions are the same as the Plan Emissions and are provided in the table below.

Air Pollutant	Plan Emission Amounts ¹ (tons)	Calculated Exemption Amounts ² (tons)	Calculated Complex Total Emission Amounts ³ (tons)
Carbon Monoxide (CO)	33.70	27894.86	33.70
Particular matter (PM)	4.49	782.55	4.49
Sulphur dioxide (SO ₂)	20.61	782.55	20.61
Nitrogen oxides (NO _x)	154.44	782.55	154.44
Volatile organic compounds (VOC)	4.63	782.55	4.63

¹For activities proposed in your DOCD, list the projected emissions calculated from the worksheets.

²List the exemption amounts for your proposed activities calculated by using the formulas in 30 CFR 250.303(d).

³List the complex total emissions associated with your proposed activities calculated from the worksheets.

This information was calculated by: Valerie Land
(281) 578-3388
valerie.land@jccteam.com

Based on this data, emissions from the proposed activities will not cause any significant effect on onshore air quality.

APPENDIX H
ENVIRONMENTAL IMPACT ANALYSIS (EIA)

An Environmental Impact Analysis was submitted with the Initial Exploration Plan (Control No. N-7701) approved on April 22, 2003, therefore, one is not being submitted under this plan.

APPENDIX I
COASTAL MANAGEMENT CONSISTENCY INFORMATION

A certificate of Coastal Management Consistency for the State of Louisiana is not required for this Supplemental Development Operations Coordination Document.

PLAN INFORMATION FORM

GENERAL INFORMATION						
Type of OCS Plan:		Exploration Plan (EP)	X	Development Operations Coordination Document (DOCD)		
Company Name:	Bois d' Arc Offshore Ltd.		MMS Operator Number:	02268		
Address:	600 Travis Street	Contact Person: Valerie Land				
	Suite 6257	Phone Number: (281) 578-3388				
	Houston, TX 77002	Email Address: valerie.land@jccteam.com				
Lease:	G22705	Area: Ship Shoal	Block: 146	Project Name (If Applicable): NA		
Objective(s):	<input type="checkbox"/> Oil	<input checked="" type="checkbox"/> Gas	<input type="checkbox"/> Sulphur	<input type="checkbox"/> Salt		
	Onshore Fourchon, LA Base:			Distance to Closest Land (Miles): 23.5		
Description of Proposed Activities (Mark all that apply)						
<input type="checkbox"/> Exploration drilling			<input type="checkbox"/> Development drilling			
<input type="checkbox"/> Well completion			<input type="checkbox"/> Installation of production platform			
<input type="checkbox"/> Well test flaring			<input type="checkbox"/> Installation of production facilities			
<input type="checkbox"/> Installation of well protection structure			<input type="checkbox"/> Installation of satellite structure			
<input type="checkbox"/> Installation of subsea wellheads and/or manifolds			<input checked="" type="checkbox"/> Installation of lease term pipelines			
<input type="checkbox"/> Temporary well abandonment			<input checked="" type="checkbox"/> Commence production			
<input type="checkbox"/> Other (specify and describe)						
Do you propose to use new or unusual technology to conduct your activities?				Yes	X	No
Do you propose any facility that will serve as a host facility for deepwater subsea development?				Yes	X	No
Do you propose any activities that may disturb an MMS-designated high-probability archaeological area?				X	Yes	No
Tentative Schedule of Proposed Activities						
Proposed Activity			Start Date	End Date	No. of Days	
Install well deck and boat landing			08/25/03	09/02/03	9	
Install 11,500' 3" lease term flowline			09/03/03	09/08/03	6	
Commence production			09/15/03	03/14/08		
Description of Drilling Rig			Description of Production Platform			
<input type="checkbox"/> Jackup	<input type="checkbox"/> Drillship		<input checked="" type="checkbox"/> Caisson	<input type="checkbox"/> Tension leg platform		
<input type="checkbox"/> Gorilla Jackup	<input type="checkbox"/> Platform rig		<input type="checkbox"/> Well protector	<input type="checkbox"/> Compliant tower		
<input type="checkbox"/> Semisubmersible	<input type="checkbox"/> Submersible		<input type="checkbox"/> Fixed platform	<input type="checkbox"/> Guyed tower		
<input type="checkbox"/> DP Semisubmersible	<input type="checkbox"/> Other		<input type="checkbox"/> Subsea manifold	<input type="checkbox"/> Floating production system		
<input type="checkbox"/> Drilling Rig Name (If Known):			<input type="checkbox"/> Spar	<input type="checkbox"/> Other (Attach description)		
Description of Lease Term Pipelines						
From (Facility/Area/Block)	To (Facility/Area/Block)	Diameter (inches)	Length (Feet)	Product		
Caisson No. 003, Ship Shoal 146	Platform "A", Ship Shoal 146	3"	11,500'	Gas/Condensate		

WELL INFORMATION FORM
(USE SEPARATE FORM FOR EACH LEASE)

PROPOSED WELL/STRUCTURE LOCATIONS

WELL / STRUCTURE NAME	SURFACE LOCATION	BOTTOM-HOLE LOCATION (FOR WELLS)
Well No. 3	CALLS: 2517 F S Land 2319 F E L OF LEASE OCS G22705 , SHIP SHOAL AREA, BLOCK 146 X: 2,091,280.63 Y: -18,416.81' LAT: 28° 43' 01" LONG: 91° 02' 55"	CALLS: F Land F L OF LEASE OCS , AREA, BLOCK X: Y: LAT: LONG:
	TVD (IN FEET):	MD (IN FEET):
		WATER DEPTH (IN FEET): 43'
Platform _ or Well _ Name:	CALLS: F Land F L OF LEASE OCS , AREA, BLOCK X: Y: LAT: LONG:	CALLS: F Land F L OF LEASE OCS , AREA, BLOCK X: Y: LAT: LONG:
	TVD (IN FEET):	MD (IN FEET):
		WATER DEPTH (IN FEET):
Platform _ or Well _ Name:	CALLS: F Land F L OF LEASE OCS , AREA, BLOCK X: Y: LAT: LONG:	CALLS: F Land F L OF LEASE OCS , AREA, BLOCK X: Y: LAT: LONG:
	TVD (IN FEET):	MD (IN FEET):
		WATER DEPTH (IN FEET):
Platform _ or Well _ Name:	CALLS: F Land F L OF LEASE OCS , AREA, BLOCK X: Y: LAT: LONG:	CALLS: F Land F L OF LEASE OCS , AREA, BLOCK X: Y: LAT: LONG:
	TVD (IN FEET):	MD (IN FEET):
		WATER DEPTH (IN FEET):