In Reply Refer To: MS 5231

November 20, 1995

Phillips Petroleum Company
Attention: Mr. Louis Hoover, III
Post Office Box 51107
Lafayette, Louisiana 70505-1107

Gentlemen:

Reference is made to the following plan received November 6, 1995:

Type Plan - Supplemental Development Operations Coordination Document
Lease - OCS 0757
Block - 118
Area - West Cameron
Activities Proposed - Wells and Caissons Nos. 16 through 19

In accordance with 30 CFR 250.34, this plan is hereby deemed submitted and is now being considered for approval.

Your control number is S-3818 and should be referenced in your communication and correspondence concerning this plan.

Sincerely,

(Orig. Sgd.) J. R. Hennessey

Donald C. Howard
Regional Supervisor
Field Operations

bcc: Lease OCS 0757 POD File (MS 5032)

\ MS 5034 w/public info. copy of the plan

\ and accomp. info.

BNewton:cic:11/20/95:DOCDCOM
SUPPLEMENTAL
Development Operations
Coordination Document
Gulf of Mexico,
Offshore Louisiana

WEST CAMERON BLOCK 118
Lease OCS-0757

November 3, 1995

Phillips Petroleum Company
Post Office Box 51107
Lafayette, Louisiana 70505-1107
Attention: Mr. LOUIS HOOVER, III
(318) 261-4137
November 3, 1995

File: Federal Lease OCS-0757
West Cameron Block 118
(Wells Nos. 16, 17, 18, and 19)
Gulf of Mexico, Western
Offshore, Louisiana
AGENCY REPORTS

Re: Development Operations
Coordination Document (DOCD)

U. S. Department of the Interior
MINERALS MANAGEMENT SERVICE
Plans Unit MS 5231
Attention: Mr. D.J. Bourgeois
1201 Elmwood Park Boulevard
New Orleans, Louisiana 70123-2394

Gentlemen:

Enclosed herewith are nine (9) copies of Phillips Petroleum Company’s ("PHILLIPS") proposed Supplemental Development Operations Coordination Document for the Lease captioned hereinabove. This project will be operated from a shore base facility located in Louisiana. Therefore a Revised Environmental Report and updated Coastal Zone Management Consistency Certification is included as required. A revised Air Quality Review is also included. Final well numbers, locations, and depths will be included in the U.S. Department of the Interior, Minerals Management Service (MMS) Form 331C, Application for Permit to Drill, Deepen, or Plugback (APD). Other relevant information to be provided therein shall include casing, blowout prevention equipment and lines, as well as other safety equipment and other such data as the District Supervisor may require.

As indicated elsewhere in this plan, Phillips proposes to use a jackup type MODU to drill the proposed wells.
Additionally, that information presented herein and determined exempt (by Phillips) from public disclosure under the Freedom of Information Act (5 USC 552) and implementing regulations (43 CFR, Part 2) has been marked "CONFIDENTIAL" or deleted from those copies of this plan marked "Public Information".

This letter is to be considered part of the Plan.

Phillips respectfully requests an expedited review and approval of this document. Please direct inquiries and response to the undersigned.

Yours very truly,

PHILLIPS PETROLEUM COMPANY

Louis Hoover, III

LH,III:jlb
Enclosures

cc: U. S. Department of the Interior
    Minerals Management Service
    Lake Jackson District
    Attention: Mr. Edmond Smith
PROPOSED ACTIVITY

Phillips proposes to drill four additional wells in Lease OCS-0757, West Cameron Block 118. The wells will be drilled from two common surface locations as caisson supported wells. The caissons will have a boat landings and heliports installed for personnel access and well maintenance. The wells may be dually completed with a selectives set up for future recompletions. Additional zones of interest may be encountered during drilling.

Should a well indicate the presence of a hydrocarbon sand in commercially paying quantities, the well may be temporarily abandoned according to the provisions of 30 CFR Part 250, Subpart G and any other requirements as specified by the District Supervisor. Approved USCG aids to navigation will be installed where required.

Throughout the life of the proposed project, all available safeguards will be utilized in an effort to protect life and the surrounding ecosystem.

Project activities will be conducted from Phillips permanent shore base facility located at Grand Chenier, Louisiana.

Phillips Petroleum Company is an active member of Clean Gulf Associates (CGA). Should an upset occur at the proposed project site, the nearest CGA base is located at Cameron, Louisiana. The anticipated response including boat procurement, loadout of equipment, travel time, and equipment deployment is approximately six (6) hours. Phillips is operating under Region VI, USEPA Gulf of Mexico General Permit Number GMG290000. Subset Number is GMG290093-046A.

The following Sections provide additional information required to complete this proposed Initial Plan of Exploration:

1. **SECTION I** Table of Proposed Locations including Timetable and other specific information as required.

2. **SECTION II** Vicinity plat with transportation routes illustrated.

3. **SECTION III** General Well Location Plat.
4. **SECTION IV** Structure Maps: *(Phillips)*  
   ROB L-2 SAND  
   NEAR TOP SIPH-D  
   DISC. B-4 SAND  
   Hazard Maps: *(Kinsella, Cook and Associates)*  
   AMPLITUDE ANOMALY MAP  
   STRUCTURE MAP (Shallow Unconformity)  
   MAN-MADE FEATURES MAP  
   BATHYMETRY, SEAFLOOR AND  
   NEAR-SEAFLOOR FEATURES MAP  
   NAVIGATION POST PLOT

5. **SECTION V** General Rig Inventory and Description.

6. **SECTION VI** Oil Spill Contingency Plan Brief and;  
   Oil Spill Trajectory Analysis.

7. **SECTION VII** Typical Drilling Mud Component Listing.

8. **SECTION VIII** Listing of typical equipment that would be used when doing seismic surveys on the block.


10. **SECTION X** Air Quality Review.

11. **SECTION XII** CZM Certification and Legal Notices
SECTION 1

Table of Proposed Locations
1. **WELL LOCATION**

<table>
<thead>
<tr>
<th>WELL NO.</th>
<th>SURFACE LOCATION</th>
<th>BOTTOMHOLE LOCATION</th>
<th>DEPTH MD/TVD</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>2891'FNL &amp; 5800'FWL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>4340'FNL &amp; 1100'FWL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>4340'FNL &amp; 1100'FWL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>2891'FNL &amp; 5800'FWL</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2. **SHALLOW HAZARDS DISCUSSION AND CERTIFICATION**

Analysis of the shallow hazards survey conducted by Kinsella, Cook & Associates, Inc. does not indicate any potential hazards present at the proposed well location with the exception of an unidentified magnetic anomaly near the No. 16 location. Presence of this anomaly will be taken into account in the engineering design of the well. The presence of an inactive fault at approximately 1950 feet MD for No. 16 will also be considered. No archeological or man-made hazards have been identified within 200 feet of the surface location and no seismic anomalies identified for shallow gas at the proposed location.

For the location discussed hereinabove, no geologic, archaeological or cultural hazards will be encountered, nor have any man-made structures or other magnetic hazards been identified. Regional geologic literature suggests that drilling or construction at these locations will not impact historic or pre-historic cultural resources.

3. **CERTIFICATION**

"Phillips Petroleum Company certifies that the proposed surface locations are free from any known shallow hazards"

4. **PROPOSED TIMETABLE**

Commencement of drilling activities are planned for December 1, 1995. It is believed that approximately sixty (60) days will be required to drill this well.

5. **MULTI-SENSOR SURVEY**

Previously submitted.
6. **H2S**

Phillips is unable to discover any evidence of H2S at or near the proposed site and believes the project site to be free of H2S. Therefore, Phillips requests the MMS to classify this area a zone where the absence of H2S is confirmed. (restatement)

7. **NEW OR UNUSUAL TECHNOLOGY**

None

8. **LEASE STIPULATIONS**

This lease was issued May, 1960. There are no known lease stipulations associated with the lease agreement.

9. **WASTE AND POLLUTANTS**

The well will be drilled a rig similar to the Rowan Louisiana, a jackup drilling platform. Drip pans are installed under all equipment which could be a potential source of pollution. All waste products containing oil will be properly transported to shore and disposed of at approved disposal facilities. Domestic wastes will be treated by onboard sanitation treatment facilities and will be disposed of into the waters of the Gulf of Mexico. All overboard discharge waters including sanitation, formation, and water based drilling fluids will be discharged at the site pursuant to NPDES regulations and guidelines.

All other solid and liquid wastes which cannot be disposed of in accordance with regulations published by EPA, or any other regulations that may govern the proper disposal of these types of wastes with regard to onshore disposal.

The following table illustrates projected amounts and rates of drilling fluid and cuttings discharges and are based on a typical vertically drilled 12,000' wellbore:

<table>
<thead>
<tr>
<th>Hole Size</th>
<th>Casing Size</th>
<th>Setting Depth</th>
<th>Amount of Cuttings</th>
<th>Amount of Drlg Fluid</th>
<th>Days to Drill</th>
<th>Disch Cuttings</th>
<th>Disch Drlg Fld</th>
</tr>
</thead>
<tbody>
<tr>
<td>30&quot;</td>
<td>30&quot;</td>
<td>460'</td>
<td>Drive - Not Applicable</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>26&quot;</td>
<td>20&quot;</td>
<td>1100'</td>
<td>3097CF</td>
<td>552 Bbls</td>
<td>1-1/2</td>
<td>2065 CF</td>
<td>441 Bbls</td>
</tr>
<tr>
<td>17-1/2&quot;</td>
<td>13-3/8&quot;</td>
<td>3500'</td>
<td>4009CF</td>
<td>714 Bbls</td>
<td>3</td>
<td>1336 CF</td>
<td>286 Bbls</td>
</tr>
<tr>
<td>12-1/4&quot;</td>
<td>9-5/8&quot;</td>
<td>9800'</td>
<td>5157CF</td>
<td>918 Bbls</td>
<td>9</td>
<td>573 CF</td>
<td>122 Bbls</td>
</tr>
<tr>
<td>8-1/2&quot;</td>
<td>7-5/8&quot;</td>
<td>12000'</td>
<td>867CF</td>
<td>154 Bbls</td>
<td>4</td>
<td>217 CF</td>
<td>46 Bbls</td>
</tr>
</tbody>
</table>
10. **ONSHORE SUPPORT BASE FACILITIES**

The existing shorebase facility located at Grand Chenier, Louisiana will be used for this project. The facility has two helicopter landing pads, fueling facilities for helicopters, as well as docking facilities for crew boats and work boats. Support vessels to be used include crew boats, work boats, and helicopters. Routes will be the most direct from the onshore base to the project site. The facility is normally manned 24 hours per day and contains living quarters as well as dining facilities. Expansion of the support base facility will not be required as a result of these proposed operations. Therefore and socioeconomic or environmental impacts on the local infrastructure will be negligible.

11. **PRODUCTION RATES AND FACILITIES**

Current production rates:  
Oil Well Gas - 530 MCF/D (Approx)  
Oil - 105 BOPD  

Projected production rates:  
Oil Well Gas - 25,000 MCF/D  
Oil - 800 BOPD  

Field life is estimated at nine years.

Current rates are approximate and may fluctuate daily. The projected rates also reflect the capacity of the production equipment on the platform. Modifications to the existing equipment may be required depending on actual well tests and number of wells drilled.

12. **PIPELINES**

The proposed wells will be tied back to the No. 1 platform via dual flowlines.

13. **COMPANY REPRESENTATIVE**

**LOUIS HOOVER, III**  
Phillips Petroleum Company  
Post Office Box 51107  
Lafayette, Louisiana 70505-1107  
(318) 261-4137
SECTION II

Vicinity Plat
SECTION III

Well Location Plat
1. WELL LOCATION

<table>
<thead>
<tr>
<th>WELL NO.</th>
<th>SURFACE LOCATION</th>
<th>BOTTOMHOLE LOCATION</th>
<th>DEPTH MD/TVD</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>2891'FNL &amp; 5800'FWL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>4340'FNL &amp; 1100'FWL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>4340'FNL &amp; 1100'FWL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>2891'FNL &amp; 5800'FWL</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2. SHALLOW HAZARDS DISCUSSION AND CERTIFICATION

Analysis of the shallow hazards survey conducted by Kinsella, Cook & Associates, Inc. does not indicate any potential hazards present at the proposed well location with the exception of an unidentified magnetic anomaly near the No. 16 location. Presence of this anomaly will be taken into account in the engineering design of the well. The presence of an inactive fault at approximately 1950 feet MD for No. 16 will also be considered. No archeological or man-made hazards have been identified within 200 feet of the surface location and no seismic anomalies identified for shallow gas at the proposed location.

For the location discussed hereinabove, no geologic, archaeological or cultural hazards will be encountered, nor have any man-made structures or other magnetic hazards been identified. Regional geologic literature suggests that drilling or construction at these locations will not impact historic or pre-historic cultural resources.

3. CERTIFICATION

"Phillips Petroleum Company certifies that the proposed surface locations are free from any known shallow hazards"

4. PROPOSED TIMETABLE

Commencement of drilling activities are planned for December 1, 1995. It is believed that approximately sixty (60) days will be required to drill this well.

5. MULTI-SENSOR SURVEY

Previously submitted.
SECTION IV

Structure Maps
Hazard Maps
SECTION V

General Rig Inventory & Description
BOOKLET OF DESCRIPTIONS
AND INVENTORIES
FOR
THE SELF ELEVATING MOBILE
OFFSHORE DRILLING UNIT

"ROWAN LOUISIANA"
RIG 016

MARATHON HULL NO. 84

OWNER
ROWANDRILL, INC.
CONSTRUCTED BY
MARATHON LETOURNEAU COMPANY
MARINE DIVISION
VICKSBURG, MISSISSIPPI

MODU ROWAN LOUISIANA
RIG 016
O.N. 565105
REG. HOUSTON, TEXAS

NET Tonnage           GROSS Tonnage
7106                  7222

MAY 6, 1991

BEST AVAILABLE COPY
DRILLING UNIT DESCRIPTION DATA

A) NAME OF UNIT
   LOUISIANA 016

B) TYPE OF UNIT
   JACK UP EQUIPPED WITH SKID-OFF PACKAGE

C) UNIT RATING
   1) DRILLING DEPTH 30,000 FT.
   2) MAX. WATER DEPTH 350 FT.
   3) MIN. WATER DEPTH 28 FT.

DIMENSIONS AND LOADING DATA

A) LENGTH
   247.58 FT.

B) WIDTH
   200.50 FT.

C) DEPTH OF HULL
   26.00 FT.

D) NUMBER AND LENGTH
   3 @ 467 FT. EACH
   OF LEGS

E) HULL TYPE
   SELF ELEVATING MOBILE OFFSHORE
   PLATFORM

F) DRAFT UNDER TOW
   15 FT.

G) PROPULSION SYSTEM
   2 BAYLOR 90" DIAMETER HORT NOZZLE
   THRUSTERS TOTAL CAPABLE BOLLARD PULL
   OF 82,500 IBS. EACH. DRIVEN BY 1 G.E.
   752 ELECTRIC MOTOR PER THRUSTER

H) LIGHTSHIP DISPLACEMENT
   16,453 KIPS

I) MAXIMUM LOADED
   DISPLACEMENT
   21,011.20 KIPS

J) MAXIMUM VARIABLE LOAD
   4,040.20 KIPS

K) JACKING SYSTEM
   48 ELECTRIC MOTORS, 16 PER LEG
   ELEVATING SPEED 90 FT./HOUR

CLASSIFICATION AND CERTIFICATION

A) COUNTRY
   UNITED STATES OF AMERICA

B) CLASSIFICATION
   SOCIETY
   AMERICAN BUREAU OF SHIPPING

C) GOVERNMENTAL
   AUTHORITY
   UNITED STATES COAST GUARD
STORAGE CAPACITY *

A) COVERED SACK STORAGE 3500 SACKS
   4-HOWCO 1360 CUBIC FEET PNEUMATIC TYPE TANKS
   1-220 CU. FT. NON-PRESSURIZED SURGE TANK
B) BULK MUD STORAGE 4-HOWCO 1360 CUBIC FEET PNEUMATIC TYPE TANKS
   1300 NORMAL OPERATION TOTAL*
   1050 NORMAL OPERATION USEABLE
C) BULK CEMENT 4-HOWCO 1360 CUBIC FEET PNEUMATIC TYPE TANKS
   3400 (TRANSIT MODE)
   4500 NORMAL OPERATION TOTAL*
   3000 NORMAL OPERATION USEABLE
D) DIESEL FUEL BARRELS 1040 TOTAL
   840 USEABLE
E) DRILL WATER BARRELS 1467 BARRELS (4 TANKS @ 42.56, 489, 489,
   63.5)
F) POTABLE WATER BARRELS 180 Barrels

* UTILIZATION OF SKID-OFF PACKAGE INCREASES
  CAPACITY FOR VARIABLE LOAD BY 792 KIPS

TUBULAR STORAGE (MAXIMUM DESIGN)

A) MAIN DECK PIPE RACKS 5 KIPS PER SQ. FT.

DECK STORAGE (MAXIMUM DESIGN)

A) MACHINERY DECK 500 LBS. PER SQ. FT.
B) MAIN DECK 500 LBS. PER SQ. FT.

MOORING SYSTEM AND EQUIPMENT

A) NUMBER AND TYPE OF ANCHORS 2-10,000 LB. ANCHORS
B) LINE SIZE AND DESCRIPTION TYPE 6X37, 1/4 DIA., 2500 FEET
C) WINCH TYPE W 1500 TS, MARATHON LEITOURNEAU

LIVING QUARTERS

A) CABINS 2- BEDS 4 ROOMS
          4- BEDS 9 ROOMS
          6- BEDS 6 ROOMS
          5- BEDS 1 ROOM (HOSPITAL)
   TOTAL NUMBER OF BEDS = 85
B) OPERATOR OFFICE 1
C) OPERATOR CABIN 2- BEDS WITH PRIVATE BATH
D) OPERATOR EXTRA ROOM 4- BEDS
E) RECREATIONAL SPACE 1 TELEVISION ROOM, 1 BILLIARD ROOM
F) HOSPITAL 5- BEDS WITH DESK AND SHOWER
HELIPORT
A) RATING
RATED FOR S-61N SIKORSKY HELICOPTER
B) DECK AREA
70 FT. DIAMETER
C) NIGHT EQUIPMENT
FULLY LIGHTED IN ACCORDANCE WITH U.S.C.G., EQUIPPED WITH RADIO BEACON
D) FIRE FIGHTING EQUIPMENT
1- 150 LB. DRY CHEMICAL CO2 PROPELLED, 1- 15 LB. CO2 EXTINGUISHER, 1- 1½ INCH FIRE HOSE, 1 FIRE SUIT

COMMUNICATIONS EQUIPMENT
A) CAI CA-35 TRANSCEIVERS (2), CAI CL-36 1000 WATT AMPLIFIERS (2)
B) 1- CONCO MOD. 778/779 118 TO 136 MHZ VHF-AM TRANSCEIVER
C) 1- STANDARD VHF RADIO
D) 1- SOUTHERN AVIONICS AIRCRAFT BEACON
E) 6- STANDARD HANDHELD MARINE VHF TRANSCEIVERS
F) HOSE McCANN VOICE ACTIVATED TELEPHONE SYSTEM THROUGHOUT RIG
G) 15- GAI TRONICS PAGING PHONES THROUGHOUT RIG WITH SPEAKERS AT VARIOUS LOCATIONS

NAVIGATIONAL EQUIPMENT
A) RUNNING LIGHTS
B) AID TO NAVIGATION
C) PITCH AND ROLL INSTRUMENTATION
E) BAROMETER
F) BENDIX-FRIEZ 100 MPH WIND AND DIRECTIONAL INDICATOR
SECTION VI

Oil Spill Contingency Plan Brief and;
Oil Spill Trajectory Analysis
Phillips Petroleum Company (Phillips) has an approved Oil Spill Contingency Plan (OSCP) on file with the Minerals Management Service. The OSCP provides for specific information for notification and action procedures should an upset occur in the waters of the Gulf of Mexico.

Action and notification procedures are specified in the OSCP for varying degrees of response depending on the size and nature of the upset. Notification and reporting procedures include state and federal agency requirements and emergency notification telephone numbers. Action procedures are specified to include responsibility, spill containment and cleanup, equipment and material, operating personnel, communications, and the Offshore Oil Spill Task Force.

Phillips is an active member of the CLEAN GULF ASSOCIATES (CGA). By reference, the CGA Operations Manual is incorporated into and made a part of Phillips Offshore Oil Spill Contingency Plan. Equipment stored and maintained by CGA is available should the need arise. In an emergency situation, Phillips will call for as much assistance and additional equipment as necessary from a number of contractors located on the Gulf Coast that specialize in oil spill containment and cleanup. These contractors, with capabilities to include manpower, equipment, and material, are listed in the OSCP.

CGA equipment located at Intracoastal City, Louisiana and Cameron, Louisiana can be deployed and used should an upset occur at the project site. A Fast Response Open Sea and Bay Skimmer System will be used as a primary spill containment system. This system is usually deployed by a workboat. Several systems may be used for massive jobs with auxiliary tanks added as required. The system is designed to provide equipment capable of fast response to emergency spill situations. Response modes for the affected areas may include booms, skimmers, pumps, scare guns, and pads. Where indicated, rehabilitation centers would be set up as needed. Allowing 2 hours for loadout and 10 hours cruising at 10 knots results in a general capability of being 100 miles offshore in twelve (12) hours following notification of a spill. Project site is located approximately 25 miles from the nearest CGA Base which is in Cameron, Louisiana.

Additional CGA equipment would be deployed from Intracoastal City, Louisiana which is 110 miles from the project site. Should an upset occur at the project site, workboats assigned to the project will be used to transport oil spill containment equipment from the CGA base to the spill site. Additional boats are available in the Galveston area and will be procured as required. Boat procurement time is not expected to exceed 2 hours. Loadout will require approximately 2 hours, travel time to the site is expected to require 2 hour. Therefore, total response time is anticipated to be approximately 8 hours. Inland travel time or inland waterway travel is not expected to cause any additional time and is not considered in the total response time.
Project site is located approximately 20 miles west, southwest of Cameron, Louisiana. Water depth may average 12 meters at and near the proposed drill sites. According to the Final EIS for Gulf of Mexico Sales 142 and 143, Section IV, the most probable areas of impact should an upset occur is in the Texas-Louisiana shoreline from Galveston and Jefferson County, Texas to Vermilion Parish, Louisiana. The highest probability for impact (42% probability) is the Cameron Parish, Louisiana coastline. The remaining areas are Jefferson County, Texas with 2% and Vermilion Parish, Louisiana with a 2% probability that an upset would impact their respective coastlines.

JEFFERSON COUNTY COASTLINE

The American Bald Eagle is known to inhabit the coastal wetlands, rivers, and lakes. Submerged clam beds are known to exist in the coastal wetlands as well. The J. D. Murphree State Wildlife Management Area contains 8,408 acres of coastal marshlands. The area is open to boating, nature study, bird watching and fishing. Supervised hunting is permitted. McFaddin Marsh is a Nature Conservancy Site containing 41,682 acres of marshlands and open water habitats.

Additionally, McFaddin Marsh contains 54,500 acres of value to endangered species and is identified by the State of Texas as an area of concern. The McFaddin National Wildlife Refuge is part of this total system. Recreational beaches are located along the coast to the coastal prairie marshlands of the Texas Point National Wildlife Refuge. The Texas Point Salt Point Marsh Natural Area contains brackish to freshwater marsh with some grass and locally scrub oak covered elongated topographic ridges.

CAMERON PARISH COASTLINE

Cameron Parish has a 42% probability of being affected by an upset contains recreational beaches and open water habitats within the marshlands. Primary fish and shellfish grounds are located along the coastal wetlands. The Rockefeller State Wildlife Refuge is partially located in Cameron Parish. The Bald Eagle is known to inhabit the coastal areas. A unique botanical system exists along the coastline within the marshlands.

VERMILION PARISH COASTLINE

The coastal waters and wetlands along the Vermilion Parish Coastline contain oyster beds and open water habitats within the marshlands. Cheniere Au Tigre, a 15,000 acre live oak forest is located in the extreme southern portion of the Parish. The Paul J. Rainey Wildlife Refuge is located near Vermilion Bay and contains 26,800 acres. The area is a winter habitat for ducks. The Rockefeller State Wildlife Refuge is a 84,000 acre site and habitat for marsh waterfowl and estuarine fish nurseries. Bird rookeries are located along the coastal wetlands.

Clean Gulf Associates Operations Manual, Volume II, Maps Numbers 3, 4, and 5 were used to identify the primary areas of potential impact should an upset occur at the project site. Protection response modes are specifically identified for these areas on these maps. Should an upset occur at the project site, nearshore booms will be deployed by helicopter to predetermined sites as determined by the onsite oil spill response team. These booms are
expected to be deployed within four (4) hours of initial notification. This time will be mitigated where possible to provide the fastest possible response time. Additionally, dispersants will not be used on or near reefs or shell beds.

Phillips Petroleum Company is very much aware of its obligation to protect and preserve these areas. Immediately following an oil spill, a maximum effort will be made to shut off the source and contain the spill to minimize its extent and to aid in its physical removal. Following the spill, the various federal and state agencies will be notified as required. The nearest CGA Base will be notified of the spill and immediate preparations will be made to deploy the equipment necessary to contain and remove the spilled substance.
SECTION VII

Typical Drilling Mud Component Listing
**DRILLING MUD COMPONENTS THAT MAY BE UTILIZED OFFSHORE**

<table>
<thead>
<tr>
<th>PRODUCT TRADE NAME</th>
<th>COMMON NAME</th>
<th>CHEMICAL TRADE NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>I. WEIGHT MATERIALS AND VISCOSIFIERS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MIL BAR</td>
<td>barite</td>
<td>barium sulfate</td>
</tr>
<tr>
<td>MIGEL</td>
<td>beatonite</td>
<td>beatonite</td>
</tr>
<tr>
<td>SALT WATER GEL</td>
<td>attapulgite</td>
<td>attapulgite clay</td>
</tr>
<tr>
<td>FLOSAL</td>
<td>asbestos fiber</td>
<td>chrysetile asbestos</td>
</tr>
<tr>
<td><strong>II. DISPERSANTS (THINNERS)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UNI-CAL</td>
<td>lignosulfonate</td>
<td>sodium lignosulfonate</td>
</tr>
<tr>
<td>DESCO</td>
<td>modified tannin</td>
<td>sulse methylated tannin + sodium di chromate</td>
</tr>
<tr>
<td><strong>III. FILTRATION CONTROL ADDITIVES</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LIGCON</td>
<td>causticized lignite</td>
<td>NaOH treated lignite</td>
</tr>
<tr>
<td>CHEMTROL-K</td>
<td>polymer-treated lignite</td>
<td>polymer-treated lignite</td>
</tr>
<tr>
<td>DRISCOSE</td>
<td>CMC</td>
<td>sodium carboxy methyl cellulose</td>
</tr>
<tr>
<td>DRISPAC</td>
<td>PAC</td>
<td>polyanionic cellulose derivative</td>
</tr>
<tr>
<td><strong>IV. CHEMICALS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Caustic Soda</td>
<td>caustic</td>
<td>sodium hydroxide</td>
</tr>
<tr>
<td>Soda Ash</td>
<td>soda ash</td>
<td>sodium carbonate</td>
</tr>
<tr>
<td>Bicarb of Soda</td>
<td>bicarb</td>
<td>sodium bicarbonate</td>
</tr>
<tr>
<td>MIL-LIME</td>
<td>lime</td>
<td>calcium hydroxide</td>
</tr>
<tr>
<td>PRODUCT TRADE NAME</td>
<td>COMMON NAME</td>
<td>CHEMICAL TRADE NAME</td>
</tr>
<tr>
<td>-------------------</td>
<td>---------------------------</td>
<td>----------------------------------------------------------</td>
</tr>
<tr>
<td>V. SPECIALTY ADDITIVES</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD-8</td>
<td>defoamer</td>
<td>non-hydrocarbon defoamer</td>
</tr>
<tr>
<td>Aluminum Stearate</td>
<td>defoamer</td>
<td>aluminum stearate</td>
</tr>
<tr>
<td>NOXYGEN</td>
<td>oxygen scavenger</td>
<td>catalyzed, sodium sulfite</td>
</tr>
<tr>
<td>NOXYGEN L</td>
<td>oxygen scavenger</td>
<td>catalyzed ammonium bisulfite solution</td>
</tr>
<tr>
<td>LUBRI-SAL</td>
<td>lubricant</td>
<td>biodegradable, non-polluting vegetable oil</td>
</tr>
<tr>
<td>SUPER SHALE-TROL 202</td>
<td>Shale-Trol</td>
<td>aluminum organic acid complex</td>
</tr>
<tr>
<td>MILCHEM-HO</td>
<td>drilling detergent</td>
<td>drilling fluid detergent</td>
</tr>
<tr>
<td>SOLTEx</td>
<td>shale control additive</td>
<td>modified hydrocarbon (non-polluting)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VI. LOSS OF CIRCULATION ADDITIVES</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MIL-PLUG</td>
<td>LCM</td>
<td>ground nut shells</td>
</tr>
<tr>
<td>MILMICA</td>
<td>LCM</td>
<td>flake mica</td>
</tr>
<tr>
<td>KWIK-SEAL</td>
<td>LCM</td>
<td>combination of granules flakes, and fibers</td>
</tr>
<tr>
<td>DIASEAL-M</td>
<td>high water loss</td>
<td>non-hazardous diatomite blend</td>
</tr>
<tr>
<td></td>
<td>lost circulation squeeze</td>
<td></td>
</tr>
<tr>
<td></td>
<td>material</td>
<td></td>
</tr>
</tbody>
</table>
SECTION VIII

List of Typical Equipment
TYPICAL 
SEISMIC EQUIPMENT DATA SHEET

Equipment that may be used when performing additional seismic surveys on this lease/block.

BOAT INFORMATION

<table>
<thead>
<tr>
<th>Crew Type</th>
<th>Marine-Streamer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boat Length</td>
<td>115 to 135'</td>
</tr>
<tr>
<td>Boat Width</td>
<td>25 to 30'</td>
</tr>
<tr>
<td>Loaded Draft</td>
<td>2'</td>
</tr>
<tr>
<td>No. of Generators</td>
<td>2</td>
</tr>
<tr>
<td>Size of Generators</td>
<td>60 Kilowatts</td>
</tr>
<tr>
<td>Type of Radios</td>
<td>Single Side Band VHF and CB</td>
</tr>
<tr>
<td>Number of Bunks</td>
<td>22 to 24</td>
</tr>
<tr>
<td>Radar</td>
<td>Decca (usually two)</td>
</tr>
<tr>
<td>Gyro</td>
<td>Sperry</td>
</tr>
<tr>
<td>Auto-Pilot</td>
<td>Raytheon or Simrad</td>
</tr>
<tr>
<td>Fathometers</td>
<td>Lorac or Radist with a</td>
</tr>
<tr>
<td></td>
<td>Western Sat. Recvr for Lane</td>
</tr>
<tr>
<td></td>
<td>Count</td>
</tr>
</tbody>
</table>

CABLE INFORMATION

<table>
<thead>
<tr>
<th>Mfg and Type</th>
<th>Western Streamer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>10560' + 2 - 220' Elastic Sections + Leadin</td>
</tr>
<tr>
<td>Number of Groups</td>
<td>48</td>
</tr>
<tr>
<td>Group Interval</td>
<td>220'</td>
</tr>
<tr>
<td>Group Array</td>
<td>210'</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>4.2 mv/microbar</td>
</tr>
<tr>
<td>Number of Hydrophones</td>
<td>26 per Group</td>
</tr>
<tr>
<td>Number of Depth Control Devices</td>
<td>10</td>
</tr>
<tr>
<td>Type of Depth Control Devices</td>
<td>Condep</td>
</tr>
<tr>
<td>Number of Depth Detectors</td>
<td>6</td>
</tr>
<tr>
<td>Towing Depth</td>
<td>30 - 35'</td>
</tr>
</tbody>
</table>

RECORDING SYSTEM

<table>
<thead>
<tr>
<th>Type</th>
<th>Digital Data Systems</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Amplifiers</td>
<td>48 Data channels, 6-12 aux.</td>
</tr>
<tr>
<td></td>
<td>Binary Gain or Floating Point.</td>
</tr>
<tr>
<td></td>
<td>Lo-cut-out, High cut 125 Hz.</td>
</tr>
<tr>
<td></td>
<td>Seg-A or Seg-C</td>
</tr>
<tr>
<td>Format</td>
<td>2 Milliseconds</td>
</tr>
<tr>
<td>Sample Rate</td>
<td>6 Second</td>
</tr>
<tr>
<td>Record Length</td>
<td></td>
</tr>
</tbody>
</table>

ENERGY SOURCE

<table>
<thead>
<tr>
<th>Type</th>
<th>Aquapulse (sleeve exploder using oxy. and propane)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Guns</td>
<td>6</td>
</tr>
<tr>
<td>Towing Depth</td>
<td>25 to 30'</td>
</tr>
<tr>
<td>No. of shots per group interval</td>
<td>2</td>
</tr>
</tbody>
</table>

====================================
SECTION IX

Environmental Report
ENVIRONMENTAL REPORT
FOR COASTAL ZONE MANAGEMENT
CONSISTENCY DETERMINATION

SUPPLEMENTAL
DEVELOPMENT OPERATIONS COORDINATION DOCUMENT
ENVIRONMENTAL REPORT
WEST CAMERON BLOCK 118
PHILLIPS PETROLEUM COMPANY
LAFAYETTE, LOUISIANA

CONTACT PERSON:
MR. LOUIS HOOVER, III
REGIONAL REGULATORY REPRESENTATIVE
P.O. BOX 51107
LAFAYETTE, LOUISIANA 70505-1107
(318-261-4137)

NOVEMBER 2, 1995

Prepared by:
C. ED YORK
505 N. MAPLE STREET
MUEENSTER, TEXAS 76252
# TABLE OF CONTENTS

I. DESCRIPTION OF THE PROPOSED ACTIVITY .................................. 1

A. Transportation Modes, Routes and Support Vessels .............. 1
B. Support Base ................................................................. 2
C. New Support Facilities ..................................................... 2
D. New or Unusual Technologies ............................................. 2
E. Maps .............................................................................. 2
F. Transportation of Oil and Gas ............................................. 2

II. DESCRIPTION OF THE AFFECTED ENVIRONMENT AND IMPACTS. 3

A. Physical and Environmental ................................................. 3
1. Commercial Fishing .......................................................... 3
2. Shipping ........................................................................... 4
3. Recreation ......................................................................... 4
4. Cultural Resources ............................................................. 4
5. Ecologically Sensitive Features .......................................... 5
6. Existing Pipelines and Cables ............................................. 5
7. Other Mineral Uses ........................................................... 6
8. Ocean Dumping Grounds ..................................................... 6
9. Endangered or Threatened Species ...................................... 6
B. Socio-economic ................................................................. 8

III. UNAVOIDABLE ADVERSE IMPACTS ................................. 9

IV. REFERENCES ...................................................................... 11

V. APPENDIX .......................................................................... 12

Coastal Zone Management Consistency Certification
LIST OF MAPS

MAP #1 .................................................. 1A

MAP #2 .................................................. 1B
I. DESCRIPTION OF THE PROPOSED ACTIVITY

The Phillips Petroleum Company proposes to drill four (4) development wells in the West Cameron Block 118 area. The approximate location of this activity is sixteen and one-half (16.5) Statute miles off the Louisiana Coast near Cameron Parish. (See Map # 1)

The well will be drilled from a jackup rig. Two (2) wells will be drilled from two (2) common surface locations. The surface location of the activities are indicated below.

<table>
<thead>
<tr>
<th>Well Site (see Map # 2)</th>
<th>Surface Location</th>
<th>Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>Well #16</td>
<td>2,891' FNL &amp; 5,800' FWL</td>
<td>16,043' TMD</td>
</tr>
<tr>
<td>Well #19</td>
<td>2,891' FNL &amp; 5,800' FWL</td>
<td>16,000' TMD</td>
</tr>
<tr>
<td>Well #17</td>
<td>4,340' FNL &amp; 1,000' FWL</td>
<td>15,226' TMD</td>
</tr>
<tr>
<td>Well #18</td>
<td>4,340' FNL &amp; 1,000' FWL</td>
<td>16,200' TMD</td>
</tr>
</tbody>
</table>

The proposed activities will be carried out and completed with the guarantee of the following items:

1. The best available and safest technologies will be utilized throughout the project. This includes meeting all applicable requirements for equipment types, general project layout, safety systems, and equipment and monitoring systems.

2. All operations will be covered by a MMS-approved oil spill contingency plan.

3. All applicable Federal, State and local requirements regarding air emission and water quality and discharge for the proposed activities, as well as any other permit conditions, will be complied with.

A. Transportation Modes, Routes and Support Vessels

The proposed project will utilize the Grand Chenier, Louisiana Service Base for supplies and transportation. During the drilling operation support vessels include one crew boat making two trips per week and one supply vessel making two trips per week to the rig. Aviation support will require one helicopter making seven trips per week. Following drilling, the production operations will require one helicopter making seven trips per week and one crew boat making one trip per week.
## Proposed Surface Locations

<table>
<thead>
<tr>
<th>BLOCK</th>
<th>WELL</th>
<th>CALLS</th>
<th>X COORDINATE</th>
<th>Y COORDINATE</th>
<th>LATITUDE (N)</th>
<th>LONGITUDE (W)</th>
</tr>
</thead>
<tbody>
<tr>
<td>118</td>
<td>16</td>
<td>2891' FNL 5500' FWL</td>
<td>1,264,429.28'</td>
<td>317,109.00'</td>
<td>29°31'05.80&quot;</td>
<td>93°38'46.027&quot;</td>
</tr>
<tr>
<td>118</td>
<td>17</td>
<td>4340' FNL 1100' FWL</td>
<td>1,259,729.28'</td>
<td>315,860.00'</td>
<td>29°30'50.516&quot;</td>
<td>93°39'38.879&quot;</td>
</tr>
<tr>
<td>118</td>
<td>18</td>
<td>4340' FNL 1100' FWL</td>
<td>1,259,729.28'</td>
<td>315,860.00'</td>
<td>29°30'50.516&quot;</td>
<td>93°39'38.879&quot;</td>
</tr>
<tr>
<td>118</td>
<td>19</td>
<td>2891' FNL 5800' FWL</td>
<td>1,264,429.28'</td>
<td>317,109.00'</td>
<td>29°31'05.80&quot;</td>
<td>93°38'46.027&quot;</td>
</tr>
</tbody>
</table>

## Public Information

PHILLIPS PETROLEUM COMPANY
OCS-0757

**Supplemental DocD**

**WEST CAMERON AREA**

**BLOCK 118**

---

**Prepared by**

C & C TECHNOLOGIES, INC.
500 DOVER BLVD, LAFAYETTE, LA 70508

**Job #** 952547
**Map No.** D952547
**Revised**
**Date:** 10/30/95
**Sheet 1 of 1**
Boat traffic to the rig/platform will depart Grand Chenier southward to the entrance to the Gulf of Mexico, thence following the most direct route to West Cameron Block 118. Helicopter flight routes will include FAA specified clearance and most direct VFR, IFR flight paths to the rig/platform.

B. Support Base

The Phillips Petroleum Company maintains a support facility in Grand Chenier. This facility is designed to provide shore-base operations support to the production, drilling and marine equipment operating in the Western Sector of the Gulf of Mexico. Consequently, all necessary support functions for the proposed activity will be provided by this facility.

The Phillips facility is currently manned at an adequate level to support the proposed activity. Therefore, no additional onshore employment will be generated as a result of this action.

C. New Support Facilities

It has been determined in the DOCD that the existing support facilities are adequate at this time to service the level of activity projected as a result of this project. Therefore, no new support facilities are required.

D. New Or Unusual Technologies

No new techniques or unusual technology will be utilized that may affect coastal waters.

E. Maps

Two maps are included in this report; Map #1 is a vicinity map showing the general location of the proposed project in relation to the affected State’s coastal zone. Map #2 contains a location plat.

F. Transportation of Oil and Gas

The proposed plans for the transportation of hydrocarbons are to flow via an existing pipeline located in Block 118.

Hydrocarbon production as a result of the proposed project is anticipated to result in:

- Gas - 25 MMCFPD
- Oil - 800 BOPD
II. DESCRIPTION OF THE AFFECTED ENVIRONMENT AND IMPACTS

This section will address the effects of the proposed activity on the areas adjacent to the site and the affected State’s coastal zone.

A. Physical and Environmental

1. Commercial Fishing

Louisiana ranks among the top five states in the nation with regard to the total value of its fishery. For the last several years, Louisiana has been the number one state in weight of fishery products landed.

The shrimp fishery is the most valuable fishery in Louisiana as well as the United States. The Gulf of Mexico region accounts for over half of the U.S. shrimp production. In terms of harvested weight, however, the Gulf Menhaden is by far the largest contributor to the total commercial landings in Louisiana.

The proposed project is located in the National Marine Service fishing zone 17; water depths in this block vary from approximately 10 to 12 meters. In this grid zone, Menhaden account for 90% of the total commercial landings by weight. Shrimp account for approximately 8% of the total catch. The average catch based on 1977-1981 landings for grid zone 17 is 299,068,853 pounds worth over $38 million.

In 1991, the following nine species each accounted for landings valued at over $1 million: black drum, red mullet roe, shark, red snapper, spotted sea trout, bluefin tuna, yellowfin tuna, blue crab, and the American oyster. (Draft EIS, Gulf of Mexico, 1993)

The major potential impacts of the proposed activity on commercial fisheries are:

a. Loss of approximately two hectares of sea floor from use by trawlers. Installations like drilling rigs and platforms actually take up very little sea space; but to protect them, operators are permitted to establish safety zones around them, generally one quarter nautical mile in radius.

b. Underwater obstructions such as pipelines are potential sources of hindering bottom trawling due to net hanging. Current regulations require that a pipeline be trenched to a depth of three feet in water depths of less than 200 feet. With proper backfilling, the pipeline should present no problem for trawlers; however, the dynamics of local bottom sediments and tides must be recognized for inadvertent effects.
The OCS Act Amendments provide for a Fisherman's Contingency Fund financed from oil revenues to compensate commercial fisherman for losses or damage to gear resulting from oil industry operations.

The impacts associated with the proposed activity are considered minimal. These impacts are otherwise offset by the beneficial increase in biomass near the platform/rig. These structures serve as artificial reefs for marine communities by providing a substrate for epifauna to grow on. Pelagic fish then are attracted to these areas to feed on the attached organisms thereby resulting in greater fishery yields in these areas.

2. Shipping

The Port of Lake Charles is the nearest Louisiana port to the proposed activity. Hydrocarbons, fuels, chemicals, rice and lumber are the major commodities shipped from and to Lake Charles via the Lake Charles Deep Water Channel. Vessel traffic during 1981 totaled 42,301 vessels utilizing the channel.

The nearest shipping fairway is approximately 2 miles north of the activity site. The Phillips Petroleum Company is aware of the operational restrictions in these areas and will conduct their operations in accordance with all applicable restrictions. Thus, the proposed activity is not expected to adversely affect any shipping fairway, transit or anchorage area.

3. Recreation

Many fish and shell fish sought after for commercial value are also pursued for sport in coastal Louisiana. Saltwater sport species include spotted sea trout, red drum, red snapper, Florida pompano and tarpon. The offshore permanent structures provide highly productive artificial reefs that are favorable fishing areas for saltwater sport fisherman. Additionally, these offshore structures serve as navigational aids for small boat operators and occasionally provide shelter and refuge during storms and mechanical breakdowns. Thus, the implementation of this project is not expected to produce any adverse impacts on sport fishing and pleasure boating; in fact, recreational potential will be slightly increased due to this action.

4. Cultural Resources

Underwater archeological studies were addressed under the previous DOCD. Visual #4 for BIS Lease Sale 62 and 62A indicates that there are no shipwrecks in Block 118. No other cultural resources were determined as a result of this analysis.
The Phillips Petroleum Company is aware of operational restrictions with regard to cultural or archaeological resource protection. Consequently, the activities associated with this project are not expected to produce any adverse impacts on these resources.

5. Ecologically Sensitive Features

The proposed project is located approximately 16.5 miles from the Cameron Parish coast. This coastal area is characterized by numerous acres of marsh which provide habitat for a variety of wildlife and also serve as primary nursery grounds for fish and shellfish.

The Rockefeller Wildlife Refuge, an 84,000 acre wildlife area, is approximately 48 miles northeast of the proposed site. This refuge serves many conservation and preservation functions in wildlife management. Duck and geese concentrations occur in and around the Refuge.

The nearest recreational beach, Holly Beach, is approximately 16 miles northeast of the proposed activity.

The proposed project will not generate any new or expanded onshore facilities, therefore no adverse impacts on the coastal environment, Rockefeller Wildlife Refuge or the recreational potential of the coastal beaches is expected as a result of this action.

There are no known ecologically sensitive areas or areas of particular concern in or near West Cameron Block 118 which would be adversely or otherwise affected by the proposed action.

6. Existing Pipelines and Cables

A pipeline occurs along the northern border of Block 118. Other minor pipelines are also present that tie-in the existing wells near the project site. Thus, Phillips Petroleum Company is aware of the pipeline locations and will conduct their operations without any adverse effects on these existing structures.

There are no known cables in Block 118 which would obstruct or hinder the proposed project.
7. Other Mineral Uses

There are no known plans to produce other minerals other than those hydrocarbons associated with the proposed activity in West Cameron Block 118.

8. Ocean Dumping Grounds

Ocean dumping is prohibited in West Cameron Block 118. The Phillips Petroleum Company will dispose of drill cuttings, sanitary and domestic waste in accordance with their NPDES permit.

9. Endangered or Threatened Species

The proposed project, located 16.5 miles off the Cameron Parish, Louisiana coast, is within the range of seven endangered species of whales, three species of endangered or two threatened species of turtles. Onshore the Terrebonne Parish area is within the range of the endangered bald eagle and the threatened American alligator.

a. Whales (Endangered)

-Northern right wale (Eubalaena glacialis) Uncommon to rare, this species is a possible resident of the north-central Gulf region.

-Sei whale (Balaenoptera borealis) This species is a possible winter resident of the Gulf of Mexico.

-Fin whale (Balaenoptera physalus) This species is a possible winter resident of the Gulf of Mexico.

-Blue whale (Balaenoptera musculus) This species is uncommon to the Gulf of Mexico.

-Minke whale (Balaenoptera acutorostrata) Uncommon to rare, this species is a possible resident of the north-central Gulf region.

-Humpback whale (Megaptera novaeangliae) This species is a possible winter resident of the Gulf of Mexico.

-Sperm whale (Physeter macrocephalus) The most common of the endangered whales to occur in the Gulf of Mexico.

Migratory patterns of the whales listed above are not directly known. It is presumed, however, that these species occur mainly in the deeper waters of the Gulf of Mexico. Therefore, the proposed project is not expected to adversely affect whale populations or migratory patterns.
b. Turtles (Endangered and Threatened)

-Kemp’s Atlantic ridley (Lepidochelys kempi) The shrimping grounds of the northern Gulf of Mexico is a primary feeding area for this endangered species.

-Hawksbill turtle (Bretmochelys imbricata) An endangered species that may occur in the coastal waters of Louisiana.

-Leatherback turtle (Dermochelys coriacea) The range of this endangered species is usually the deeper waters of the Gulf of Mexico; however, observations have been made of large numbers of leatherback turtles feeding on jellyfish in inshore waters during summer (USDE, BIS, OCS Sale 58A, pg. 62).

-Green turtle (Chelonia mydas) and the Loggerhead turtle (Caretta) are listed as threatened and occur in the Gulf of Mexico waters.

There are no known turtle nesting areas near the proposed project site. Therefore, no measurable direct impact on the turtles listed above is expected to occur as a result of the proposed activity.

c. Onshore Species (Endangered and Threatened)

-American alligator (Alligator mississippiensis) This species is currently classified as Threatened due to "Similarity of Appearance" on the federal list of endangered species in the coastal areas of Louisiana. Subsequently, parishes currently are allowed to permit regulated harvests of alligators in their respective parishes; Terrebonne Parish is one of these. State laws govern the harvests and allow the taking of alligator hides and meat during established harvest seasons. The American Alligator is the only species currently on the federal list of endangered or threatened species that is commonly found in the coastal areas near the project.

-Bald eagle (Haliaeetus leucocephalus) In the Southeast United States, bald eagles actively nest in South Carolina, Florida, Mississippi, Louisiana and Texas. Since most of the feeding activities of bald eagles in the central and western Gulf States are restricted to inland areas there are no expected impacts associated with the proposed project. (USDI, OCS Sales 147 and 150).

-Piping plover (Charadrius melodus) Nests on sandy beaches along coasts or inland lake shores, preferring areas with scant vegetation and cover. Wintering habitats are thought to include coastal sand flats and mud flats in close proximity to large inlets or passes. In Louisiana, barrier islands appear to provide the most favorable habitat for this species.
-Whooping crane (Grus americana) Migrates in two patterns. The first nests in northern Alberta and south-central Northwest Territories, Canada, and migrates to wintering grounds along the Texas coast on salt flat islands in and around Aransas National Wildlife Refuge. The second population was established in southeastern Idaho.

- Eskimo curlew (Numenius borealis) It is a small American curlew that nests on Arctic tundra and migrates to wintering habitat in the pampas grasslands of southern South America. During migration, it formerly occurred in large flocks on the prairies and on coastal grasslands.

- Peregrine falcon (Falco peregrinus tundrius) The Arctic peregrine nests in tundra areas of North America and Greenland, and migrates south to the Gulf Coast, West Indies, and Central and South America. Coastal beaches, flats, and wetlands along the Gulf Coast serve as hunting and resting areas during migration.

- Eastern Brown Pelican (Pelecanus occidentalis carolinensis) It is a colonial nesting species that feeds entirely upon fishes captured by plunge diving in coastal waters. It rarely ventures beyond twenty (20) miles from the coast. Surveys conducted from 1990 to 1992 showed six (6) colonies (2,196 individuals) in Louisiana.

- Least tern (Sternula antillarum) It is the smallest North American tern. Surveys from 1990 to 1992 showed 14 colonies (4,460 breeding pairs) in Louisiana. Least terns are the only nesting tern species in Louisiana to use mainland beaches, and they will use human-made and managed spoil sites.

- Red Wolf (Canis rufus) - Meager numbers of this species are present in parts of southwestern Louisiana (Cameron and Calcasieu Parishes) and extreme southwestern Texas (Lowery, 1974).

The proposed project does not require any additional onshore facilities; therefore, there are no expected impacts on the habitat of these onshore endangered or threatened species as a result of this action.

B. Socio-economic: Not applicable at this time.
III. UNAVOIDABLE ADVERSE IMPACTS

The environmental consequences of the proposed project are expected to be minimal. Most impacts identified will be of a temporary nature and will occur in the immediate vicinity of the operation. Therefore, no long term effect on the environment is expected.

Unavoidable adverse impacts include:

- An increase in air pollutants is a result of power generation during drilling and transportation modes. However, an air quality review has been conducted pursuant to 30 CFR 250.57. The findings of this review indicate that the projected emissions are well below the exemption rates and pose no significant impact on the ambient air quality of the onshore environment.

- A temporary reduction in water quality due to the disposal of drill cuttings, deck drainage and sanitary and domestic waste will occur as a result of this action. During the disposal of drill cuttings, an increase in turbidity will be evident as a result of drilling fluids adhering to these particles. Since the availability of sunlight is an important factor in photosynthesis, it has been found that increased turbidity reduces photosynthesis. However, this effect will be short-term and will return to normal once the drilling phase is completed. The additional sources of water pollutants are also expected to produce minimal and short-term effects on the water quality near the rig. These pollutants are regulated by the U.S. Environmental Protection Agency's effluent guidelines (40 CFR Part 435) for oil and gas extraction. Conformance to these guidelines will be carried out throughout the project period.

- Burial of immobile benthic organisms will occur during the discharge of drill cuttings. Drill cuttings accumulate on the sea floor covering an area of approximately 150 feet in diameter; in the affected area the impact is localized and dissipates over time by currents. Mobile benthic organisms from the surrounding sea floor adjust rather rapidly to these changes and build homes on top of the cuttings. Within months the affected area is again flourishing with new benthic communities (Zingula et al, 1977). Thus, the impacts associated with this activity will be short-term and localized.

- There will be a temporary loss of approximately five acres (2 hectares) of sea space that will be unavailable for commercial fishing.

Positive impacts of the proposed action includes:

- An increase in biomass near the rig/platform, thus, resulting in higher productivity.
Offshore structures may serve as navigation aids and during mechanical breakdowns or inclement weather provide refuge for boat operators.
REFERENCES


SECTION X

Air Quality Review
Phillips Petroleum Company  
West Cameron Block 118

PROJECTED EMISSIONS FOR DEVELOPMENT OPERATIONS  
FOR COMPLIANCE PURSUANT TO 30 CFR 250.57 AIR QUALITY REGULATIONS

I. General Information

Operation Description: Supplemental Development Operations  
Owner/Operator: Phillips Petroleum Company  
Address: P.O. Box 51107, Lafayette, Louisiana 70505-1107  
Contact Person: Louis Hoover III, Regional Regulatory Representative

Location of Project: West Cameron Block 118 (OCS-G-0757)

Drilling Operations Schedule: 
Begin - December 1, 1995  
End - July 28, 1996

Production Schedule*: 
Begin - August 1, 1996  
End - Continuous

*Note: New production will replace original production declined at main production platform.

Distance to Shoreline (mean high water line):  
Sixteen and One-Half (16.5) Statute Miles

II. Synopsis

The projected emissions derived as a result of this review represent a maximum (liberal) assessment for indicator pollutants. The findings of this assessment indicate that the proposed emissions herein are well below the exemption rates and pose no significant impact on the ambient air quality of the onshore environment. Based on this assessment, no further air quality review is required.
<table>
<thead>
<tr>
<th>COMPANY</th>
<th>Phillips Petroleum Company</th>
</tr>
</thead>
<tbody>
<tr>
<td>AREA</td>
<td>West Cameron</td>
</tr>
<tr>
<td>BLOCK</td>
<td>Block 118</td>
</tr>
<tr>
<td>LEASE</td>
<td>OCS-G-0757</td>
</tr>
<tr>
<td>PLATFORM</td>
<td>Jackup Rig</td>
</tr>
<tr>
<td>WELL</td>
<td>Wells16-19</td>
</tr>
<tr>
<td>LATITUDE</td>
<td>29° 31' 06.8&quot;,  29° 30' 50.5&quot;</td>
</tr>
<tr>
<td>LONGITUDE</td>
<td>93° 38' 46.0&quot;,  93° 39' 38.8&quot;</td>
</tr>
<tr>
<td>COMPANY CONTACT</td>
<td>Mr. Louis Hoover III</td>
</tr>
<tr>
<td>TELEPHONE NO.</td>
<td>(318) 261-4137</td>
</tr>
<tr>
<td>REMARKS</td>
<td>Supplemental DOCD</td>
</tr>
</tbody>
</table>
### III. 1995 AIR EMISSION CALCULATIONS

<table>
<thead>
<tr>
<th>COMPANY</th>
<th>AREA</th>
<th>BLOCK</th>
<th>LEASE</th>
<th>PLATFORM</th>
<th>WELL</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>CONTACT</th>
<th>PHONE</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phillips Petroleum Co.</td>
<td>West Cameron</td>
<td>2318 2-27/75</td>
<td>Jackson Rig</td>
<td>Yatsis-50</td>
<td>3</td>
<td>31</td>
<td>31</td>
<td>31</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OPERATIONS</td>
<td>EQUIPMENT</td>
<td>MAX. FUEL</td>
<td>ACT. FUEL</td>
<td>RUN TIME</td>
<td>POUNDS PER HOUR</td>
<td>TONS PER YEAR</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Diesel Engines</td>
<td>HP</td>
<td>GAL/HR</td>
<td>GAL/D</td>
<td>H/R/D</td>
<td>DAYS</td>
<td>TPB</td>
<td>SOX</td>
<td>BOX</td>
<td>VCO</td>
</tr>
<tr>
<td></td>
<td></td>
<td>HP</td>
<td>SCF/HR</td>
<td>SCF/PD</td>
<td>HR/D</td>
<td>DAYS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DRILLING</td>
<td>PRIME MOVER=600hp diesel</td>
<td>1300</td>
<td>62.79</td>
<td>1505.98</td>
<td>24</td>
<td>3</td>
<td>0.96</td>
<td>4.27</td>
<td>31.50</td>
<td>0.84</td>
</tr>
<tr>
<td></td>
<td>PRIME MOVER=600hp diesel</td>
<td>1300</td>
<td>62.79</td>
<td>1505.98</td>
<td>24</td>
<td>3</td>
<td>0.96</td>
<td>4.27</td>
<td>31.50</td>
<td>0.84</td>
</tr>
<tr>
<td></td>
<td>PRIME MOVER=600hp diesel</td>
<td>0</td>
<td>0</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td></td>
<td>AUXILIARY EQUIP=600hp diesel</td>
<td>150</td>
<td>7.245</td>
<td>173.85</td>
<td>2</td>
<td>15</td>
<td>0.33</td>
<td>0.31</td>
<td>4.63</td>
<td>37.0</td>
</tr>
<tr>
<td></td>
<td>VESSELS=500hp diesel</td>
<td>2500</td>
<td>120.75</td>
<td>2589.00</td>
<td>3</td>
<td>5</td>
<td>1.32</td>
<td>5.20</td>
<td>60.57</td>
<td>1.82</td>
</tr>
<tr>
<td></td>
<td>VESSELS=500hp diesel</td>
<td>3000</td>
<td>144.9</td>
<td>3477.80</td>
<td>6</td>
<td>5</td>
<td>1.59</td>
<td>8.85</td>
<td>72.69</td>
<td>2.18</td>
</tr>
<tr>
<td>PIPELINE INSTALLATION</td>
<td>PIPELINE LAY BARGE diesel</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SUPPORT VESSEL diesel</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PIPELINE BURST BARGE diesel</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SUPPORT VESSEL diesel</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FACILITY INSTALLATION</td>
<td>DERRICK BARGE diesel</td>
<td>5200</td>
<td>251.18</td>
<td>6027.84</td>
<td>24</td>
<td>3</td>
<td>2.75</td>
<td>17.07</td>
<td>125.99</td>
<td>3.75</td>
</tr>
<tr>
<td></td>
<td>MATERIAL TUG diesel</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PRODUCTION (existing)</td>
<td>RECIP=600hp diesel</td>
<td>350</td>
<td>16.905</td>
<td>405.72</td>
<td>1</td>
<td>183</td>
<td>0.77</td>
<td>0.72</td>
<td>10.79</td>
<td>0.86</td>
</tr>
<tr>
<td></td>
<td>SUPPORT VESSEL diesel</td>
<td>3000</td>
<td>144.9</td>
<td>3477.80</td>
<td>6</td>
<td>52</td>
<td>1.59</td>
<td>8.85</td>
<td>72.99</td>
<td>2.18</td>
</tr>
<tr>
<td></td>
<td>SUPPORT VESSEL diesel</td>
<td>2500</td>
<td>120.75</td>
<td>2589.00</td>
<td>3</td>
<td>52</td>
<td>1.32</td>
<td>8.20</td>
<td>60.57</td>
<td>1.82</td>
</tr>
<tr>
<td></td>
<td>TURBINE gas</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>RECIP-2 cycle lean nat gas</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>RECIP-4 cycle lean nat gas</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>RECIP-4 cycle rich nat gas</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>RUBBER mat gas</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>MOTOR</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>BPC</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SCF/HR</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CFM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TANK-</td>
<td>160</td>
<td>365</td>
<td>24</td>
<td>0.43</td>
<td>53.55</td>
<td>45.4</td>
<td>291.38</td>
<td>0.01</td>
<td>1.29</td>
<td>7.45</td>
</tr>
<tr>
<td>FLARE-</td>
<td>750000</td>
<td>24</td>
<td>500</td>
<td>35</td>
<td>291.38</td>
<td>45.4</td>
<td>291.38</td>
<td>0.01</td>
<td>1.29</td>
<td>7.45</td>
</tr>
<tr>
<td>PROCESS VENT-</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DILUTIVES-</td>
<td>250.0</td>
<td>365</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GLYPH. STILL VENT.-</td>
<td>1500</td>
<td>365</td>
<td>365</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DRILLING</td>
<td>DIL BURN</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>GAS FLARE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**1995 YEAR TOTAL**

<table>
<thead>
<tr>
<th>DISTANCE FROM LAND IN MILES</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.5</td>
</tr>
</tbody>
</table>

**TOTAL AIR EMISSION CALCULATION**

<table>
<thead>
<tr>
<th>DISTANCE FROM LAND IN MILES</th>
</tr>
</thead>
<tbody>
<tr>
<td>649.45</td>
</tr>
</tbody>
</table>

**BEST AVAILABLE COPY**
### III. 1996 AIR EMISSION CALCULATIONS

<table>
<thead>
<tr>
<th>COMPANY</th>
<th>AREA</th>
<th>BLOCK</th>
<th>LEASE</th>
<th>PLATFORM</th>
<th>WELL 10-19</th>
<th>LATITUDE (DEG, MIN)</th>
<th>LONGITUDE (DEG, MIN)</th>
<th>CONTACT</th>
<th>PHONE</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hilcorp Petroleum Company</td>
<td>Helo Cameron</td>
<td>Block 118</td>
<td>52-3-2</td>
<td>4</td>
<td>10-19</td>
<td>32.128</td>
<td>-94.247</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Equipment

<table>
<thead>
<tr>
<th>OPERATIONS</th>
<th>EQUIPMENT</th>
<th>MAX. FUEL</th>
<th>ACT. FUEL</th>
<th>RUN YEAR</th>
<th>POUNDS PER HOUR</th>
<th>TONS PER YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIESEL ENGINES</td>
<td>HP</td>
<td>SCFM/HR</td>
<td>SCF/HR</td>
<td>RPM</td>
<td>TBP</td>
<td>SOX</td>
</tr>
<tr>
<td>PRIME MOVER&lt;600hp diesel</td>
<td>1300</td>
<td>92.79</td>
<td>1506.85</td>
<td>24</td>
<td>229</td>
<td>0.69</td>
</tr>
<tr>
<td>PRIME MOVER&lt;600hp diesel</td>
<td>1300</td>
<td>92.79</td>
<td>1506.85</td>
<td>24</td>
<td>229</td>
<td>0.69</td>
</tr>
<tr>
<td>AUXILIARY EQUIP&lt;600hp diesel</td>
<td>150</td>
<td>7.245</td>
<td>173.88</td>
<td>2</td>
<td>105</td>
<td>0.33</td>
</tr>
<tr>
<td>VESSELS&lt;600hp diesel</td>
<td>2500</td>
<td>120.75</td>
<td>2886.00</td>
<td>3</td>
<td>20</td>
<td>1.32</td>
</tr>
<tr>
<td>VESSELS&lt;600hp diesel</td>
<td>3000</td>
<td>144.9</td>
<td>3477.60</td>
<td>6</td>
<td>30</td>
<td>1.59</td>
</tr>
<tr>
<td>PIPELINE INSTALLATION</td>
<td>PIPELINE LAY BARGE diesel</td>
<td>2500</td>
<td>120.75</td>
<td>2886.00</td>
<td>10</td>
<td>5</td>
</tr>
<tr>
<td>PIPELINE BURY BARGE diesel</td>
<td>3000</td>
<td>144.9</td>
<td>3477.60</td>
<td>10</td>
<td>5</td>
<td>1.58</td>
</tr>
<tr>
<td>SUPPORT VESSEL diesel</td>
<td>2500</td>
<td>120.75</td>
<td>2886.00</td>
<td>10</td>
<td>5</td>
<td>1.32</td>
</tr>
<tr>
<td>SUPPORT VESSEL diesel</td>
<td>3000</td>
<td>144.9</td>
<td>3477.60</td>
<td>10</td>
<td>5</td>
<td>1.58</td>
</tr>
<tr>
<td>FACILITY INSTALLATION</td>
<td>DERRICK BARGE diesel</td>
<td>5200</td>
<td>251.16</td>
<td>6027.84</td>
<td>24</td>
<td>3</td>
</tr>
<tr>
<td>MATERIAL TUG diesel</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PRODUCTION</td>
<td>RECIP&lt;600hp diesel</td>
<td>350</td>
<td>10.899</td>
<td>409.72</td>
<td>1</td>
<td>183</td>
</tr>
<tr>
<td>SUPPORT VESSEL diesel</td>
<td>3000</td>
<td>144.9</td>
<td>3477.60</td>
<td>0</td>
<td>52</td>
<td>1.58</td>
</tr>
<tr>
<td>SUPPORT VESSEL diesel</td>
<td>2500</td>
<td>120.75</td>
<td>2886.00</td>
<td>3</td>
<td>52</td>
<td>1.32</td>
</tr>
<tr>
<td>TURBINE ret gas</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RECIP 2 cycle lean ret gas</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RECIP 4 cycle lean ret gas</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RECIP 4 cycle rich ret gas</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RUNNER ret gas</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TANK-</td>
<td>BPD</td>
<td>SCFM/HR</td>
<td>COUN</td>
<td>750000</td>
<td>24</td>
<td>2</td>
</tr>
<tr>
<td>FLARE-</td>
<td>500</td>
<td>24</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PROCESS VENT-</td>
<td>250</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FUGITVES-</td>
<td>150</td>
<td>256.8</td>
<td>350</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OIL BURN</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WELL TEST</td>
<td>GAS FLARE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| 1095 YEAR TOTAL | 10.98 | 99.28 | 799.89 | 70.84 | 452.25 | 4.98 | 28.46 | 197.26 | | | |

#### Best Available Copy

"Best Available Copy"
### III. 1997 AND CONTINUOUS AIR EMISSION CALCULATIONS

<table>
<thead>
<tr>
<th>OPERATIONS</th>
<th>EQUIPMENT</th>
<th>MAX. FUEL</th>
<th>ACT. FUEL</th>
<th>RUN TIME</th>
<th>POUNDS PER HOUR</th>
<th>TONS PER YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>MMBTU/HR</td>
<td>SCF/HR</td>
<td>SCF/D</td>
<td>TBP</td>
<td>SOx</td>
</tr>
<tr>
<td>DRILLING</td>
<td>PRIME MOVER+4000hp diesel</td>
<td>0</td>
<td>0</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>PRIME MOVER+4000hp diesel</td>
<td>0</td>
<td>0</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>PRIME MOVER+4000hp diesel</td>
<td>0</td>
<td>0</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>AUXILIARY EQUIP+6000hp diesel</td>
<td>0</td>
<td>0</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>PIPELINE</td>
<td>PIPELINE LAT BARGE diesel</td>
<td>0</td>
<td>0</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>INSTALLATION</td>
<td>SUPPORT VESSEL diesel</td>
<td>0</td>
<td>0</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>PIPELINE BUR Ly BARGE diesel</td>
<td>0</td>
<td>0</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>SUPPORT VESSEL diesel</td>
<td>0</td>
<td>0</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>FACILITY</td>
<td>DERRICK BARGE diesel</td>
<td>0</td>
<td>0</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>INSTALLATION</td>
<td>MATERIAL TUG diesel</td>
<td>0</td>
<td>0</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>PRODUCTION</td>
<td>RECP+500hp diesel</td>
<td>250</td>
<td>16,905</td>
<td>405.72</td>
<td>1</td>
<td>183</td>
</tr>
<tr>
<td></td>
<td>SUPPORT VESSEL diesel</td>
<td>3000</td>
<td>144.9</td>
<td>3477.00</td>
<td>0</td>
<td>52</td>
</tr>
<tr>
<td></td>
<td>SUPPORT VESSEL diesel</td>
<td>2500</td>
<td>120.75</td>
<td>2888.00</td>
<td>0</td>
<td>52</td>
</tr>
<tr>
<td></td>
<td>TURBINE nat gas</td>
<td>0</td>
<td>0</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>RECP+2 cycle lean nat gas</td>
<td>0</td>
<td>0</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>RECP+4 cycle lean nat gas</td>
<td>0</td>
<td>0</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>RECP+4 cycle rich nat gas</td>
<td>0</td>
<td>0</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>SUMMER nat gas</td>
<td>0</td>
<td>0</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>MISC.</td>
<td>TANK</td>
<td>800</td>
<td>24</td>
<td>365</td>
<td>4.38</td>
<td></td>
</tr>
<tr>
<td></td>
<td>FLARE</td>
<td>150000</td>
<td>24</td>
<td>365</td>
<td>1.00</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PROCESS VENT</td>
<td>500</td>
<td>24</td>
<td>365</td>
<td>53.55</td>
<td></td>
</tr>
<tr>
<td></td>
<td>FUGITVES</td>
<td>1500</td>
<td>24</td>
<td>365</td>
<td>45.23</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LSCYCL, STILL VENT</td>
<td>1500</td>
<td>24</td>
<td>365</td>
<td>1.70</td>
<td></td>
</tr>
<tr>
<td></td>
<td>DIL BURN</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0.01</td>
<td></td>
</tr>
<tr>
<td></td>
<td>GAS FLARE</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0.04</td>
<td></td>
</tr>
</tbody>
</table>

### 1997 AND CONTINUOUS TOTAL

<table>
<thead>
<tr>
<th>Sumpulation CALCULATION</th>
<th>DISTANCE FROM LAND IN MILES</th>
<th>10.5</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>689.48</td>
<td>640.48</td>
</tr>
</tbody>
</table>

**BEST AVAILABLE COPY**
## IV. SUMMARY OF AIR EMISSION CALCULATIONS

<table>
<thead>
<tr>
<th>COMPANY</th>
<th>AREA</th>
<th>BLOCK</th>
<th>LEASE</th>
<th>PLATFORM</th>
<th>WELL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phillips Petroleum</td>
<td>West Cameron</td>
<td>Block 118</td>
<td>DCS-G-0757</td>
<td>Jackup Rig</td>
<td>Wells16-19</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year</th>
<th>TSP</th>
<th>SOx</th>
<th>NOx</th>
<th>HC</th>
<th>CO</th>
</tr>
</thead>
<tbody>
<tr>
<td>1995</td>
<td>1.07</td>
<td>6.25</td>
<td>47.92</td>
<td>10.93</td>
<td>17.17</td>
</tr>
<tr>
<td>1996</td>
<td>4.35</td>
<td>26.46</td>
<td>197.28</td>
<td>18.94</td>
<td>49.75</td>
</tr>
<tr>
<td>1997</td>
<td>0.42</td>
<td>2.25</td>
<td>18.34</td>
<td>13.54</td>
<td>10.71</td>
</tr>
<tr>
<td>1998</td>
<td>0.42</td>
<td>2.25</td>
<td>18.34</td>
<td>13.54</td>
<td>10.71</td>
</tr>
<tr>
<td>1999</td>
<td>0.42</td>
<td>2.25</td>
<td>18.34</td>
<td>13.54</td>
<td>10.71</td>
</tr>
<tr>
<td>2000</td>
<td>0.42</td>
<td>2.25</td>
<td>18.34</td>
<td>13.54</td>
<td>10.71</td>
</tr>
<tr>
<td>2001</td>
<td>0.42</td>
<td>2.25</td>
<td>18.34</td>
<td>13.54</td>
<td>10.71</td>
</tr>
<tr>
<td>2002</td>
<td>0.42</td>
<td>2.25</td>
<td>18.34</td>
<td>13.54</td>
<td>10.71</td>
</tr>
<tr>
<td>2003</td>
<td>0.42</td>
<td>2.25</td>
<td>18.34</td>
<td>13.54</td>
<td>10.71</td>
</tr>
<tr>
<td>2004</td>
<td>0.42</td>
<td>2.25</td>
<td>18.34</td>
<td>13.54</td>
<td>10.71</td>
</tr>
<tr>
<td>Allowable</td>
<td>549.45</td>
<td>549.45</td>
<td>549.45</td>
<td>549.45</td>
<td>22242.99</td>
</tr>
</tbody>
</table>

**BEST AVAILABLE COPY**
V. Exemption Formula

The projected emissions from operations are to be compared with "exemption rules" for the facility location. If the amount of these projected emissions is less than or equal to the emissions amount "E" for the air pollutant, the facility is exempt for that air pollutant from further air quality review.

The following formulas pursuant to 30 CFR Part 250 Sec. 250-57-1 (d) are used to determine exemption rates:

For CO:  \( E = 3400 D \exp \frac{2}{3} \)
For TSP, SO2, NOx, VOC:  \( E = 33.3D \)
\( D = \) distance of the facility in statute miles from the closest onshore area

Based upon these exemption formulas, the following emission rates were computed for West Cameron Block 118. Distance from nearest onshore area is sixteen and one-half (16.5) statute miles.

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Exemption Rate (tons/yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO</td>
<td>22242.99</td>
</tr>
<tr>
<td>SO2</td>
<td>549.45</td>
</tr>
<tr>
<td>NO</td>
<td>549.45</td>
</tr>
<tr>
<td>VOC</td>
<td>549.45</td>
</tr>
<tr>
<td>TSP</td>
<td>549.45</td>
</tr>
<tr>
<td>Fuel Usage Conversion Factors</td>
<td>Natural Gas Turbines</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>---------------------</td>
</tr>
<tr>
<td></td>
<td>units</td>
</tr>
<tr>
<td>NG Turbines</td>
<td>gms/hp-hr</td>
</tr>
<tr>
<td>NG 2-cycle lean</td>
<td>gms/hp-hr</td>
</tr>
<tr>
<td>NG 4-cycle lean</td>
<td>gms/hp-hr</td>
</tr>
<tr>
<td>NG 4-cycle rich</td>
<td>gms/hp-hr</td>
</tr>
<tr>
<td>Diesel Recip. &lt; 600 hp.</td>
<td>gms/hp-hr</td>
</tr>
<tr>
<td>Diesel Recip. &gt; 600 hp.</td>
<td>gms/hp-hr</td>
</tr>
<tr>
<td>NG Heaters/Boilers/Burners</td>
<td>lbs/mmscf</td>
</tr>
<tr>
<td>NG Flares</td>
<td>lbs/mmscf</td>
</tr>
<tr>
<td>Liquid Flaring</td>
<td>lbs/bbl</td>
</tr>
<tr>
<td>Tank Vapors</td>
<td>lbs/bbl</td>
</tr>
<tr>
<td>Fugitives</td>
<td>lbs/hr/comp.</td>
</tr>
<tr>
<td>Glycol Dehydrator Vent</td>
<td>lbs/mmscf</td>
</tr>
<tr>
<td>Gas Venting</td>
<td>lbs/scf</td>
</tr>
</tbody>
</table>

BEST AVAILABLE COPY
EXHIBIT B MISCELLANEOUS INFORMATION

DRILLING:

Total Well Footage to be Drilled - 63,469 ft.
Period - 240 days

Supply Boats:
3000 Hp
4 hours waiting time: 2 per week during drilling*
1 per week during production

Base: Grand Chenier, Louisiana

Crew Boats:
2500 Hp
1 Hour Waiting Time: 2 per week during drilling*
1 per week during production

Base: Grand Chenier, Louisiana

* Supply and crew boats already make one (1) trip per week to existing West Cameron Block 118 platform. One additional trip each will be added during drilling.

Helicopters:
2 Engines
1 Trip Per Day: 7 per week during drilling
7 per week during production

Base: Grand Chenier, Louisiana
EMISSION SOURCE LOCATIONS AND ELEVATIONS
SECTION XI

CZM Certification and;
Legal Notices
COASTAL ZONE MANAGEMENT CONSISTENCY CERTIFICATION

SUPPLEMENTAL DEVELOPMENT OPERATIONS COORDINATION DOCUMENT PROPOSED WORK

GULF OF MEXICO, OFFSHORE CAMERON PARISH PROJECT AREA

FEDERAL LEASE OCS-0757, WEST CAMERON BLOCK 118 LEASE/WELL NUMBER

"THE PROPOSED ACTIVITIES DESCRIBED IN DETAIL IN THIS PLAN COMPLY WITH LOUISIANA'S APPROVED COASTAL ZONE MANAGEMENT PROGRAM AND WILL BE COMPLETED IN A MANNER CONSISTENT WITH SUCH PROGRAM".

ARRANGEMENTS HAVE BEEN MADE WITH THE MORNING ADVOCATE IN BATON ROUGE AND THE CAMERON PARISH PILOT TO PUBLISH A NOTICE OF THE PROPOSED ACTIVITIES NO LATER THAN NOVEMBER 10, 1995.

PHILLIPS PETROLEUM COMPANY
LESSEE OR OPERATOR

LOUIS HOOVER, III
CERTIFYING OFFICIAL

DATE
PHILLIPS PETROLEUM COMPANY

Exploration and Production Group

FILE: Lease OCS-G 0757
West Cameron Block 118
LEASE
Gulf of Mexico, Central
Offshore, Louisiana
AGENCY REPORTS

RE: LADNR-LCMS
Public Notice
Federal Consistency Review

Baton Rouge Morning Advocate
Public Notice Department
ATTENTION: Ms. Heather Allen
Post Office Box 588
Baton Rouge, Louisiana 70821

Dear Ms. Allen,

Attached hereto is a public notice to be run in THE MORNING ADVOCATE by November 10, 1995. Proof of publication is required.

Please direct billing advice as well as proof of publication to the attention of the undersigned.

Yours very truly,

PHILLIPS PETROLEUM COMPANY

Louis Hoover, III

LH,III:jlb
Attachment

xcc: U. S. Department of the Interior (w/attach)
MINERALS MANAGEMENT SERVICE
Exploration and Development Plans Unit
1201 Elmwood Park Boulevard
New Orleans, Louisiana 70123-2394
Public Notice of Federal Consistency review of a Proposed Exploration Plan by the Coastal Management Section/Louisiana Department of Natural Resources for the Plan’s consistency with the Louisiana Coastal Resources Program.

APPLICANT: Phillips Petroleum Company  
Post Office Box 51107  
Lafayette, Louisiana 70505-1107  
Attention: Mr. Louis Hoover, III

LOCATION: West Cameron Block 118  
Lease OCS 0757  
Lease offering date May, 1960

DESCRIPTION: Proposed development plans for the above area provide for the development drilling and completion of Wells Nos. 16, 17, 18 and 19. Activities will include drilling from a jack-up type rig and transport of drilling crews and equipment by helicopter and/or cargo vessel from an onshore base located at Grand Chenier, Louisiana. No ecologically sensitive species or habitats are expected to be located near or affected by these activities.

A copy of the Plan described above is available for inspection at the Coastal Management Section Office located on the 10th Floor of the State Lands and Natural Resources Building, 625 North 4th Street, Baton Rouge, Louisiana. Office hours: 8:00 a.m. to 4:30 p.m., Monday through Friday. The public is requested to submit comments to the Coastal Management Service. Attention: OCS Plans, Post Office Box 44396, Baton Rouge, Louisiana 70804. Comments must be received within 15 days of the date of this notice or 15 days after the Coastal Management Section obtains a copy of the Plan and it is available for public inspection. This notice is provided to meet the requirements of the NOAA Regulations on Federal Consistency with approved Coastal Management Programs.
PHILLIPS PETROLEUM COMPANY
LAFAYETTE, LOUISIANA 70505-1107
P.O. BOX 51107  TELEPHONE: 318-261-4100
EXPLORATION AND PRODUCTION GROUP

October 31, 1995

FILE: Lease OCS-G 0757
West Cameron Block 118
LEASE
Gulf of Mexico, Central
Offshore, Louisiana
AGENCY REPORTS

RE: LADNR-LCMS
Public Notice
Federal Consistency Review

Cameron Parish Pilot
Post Office Box 995
DeQuincy, Louisiana 70633

Gentlemen:

Attached hereto is a public notice to be run in THE CAMERON PARISH PILOT by
November 10, 1995. Proof of publication is required.

Please direct billing advice as well as proof of publication to the attention of the
undersigned.

Yours very truly,

PHILLIPS PETROLEUM COMPANY

Louis Hoover, Ill

LH.III:jib
Attachment
xcc: U. S. Department of the Interior (w/attach)
MINERALS MANAGEMENT SERVICE
Exploration and Development Plans Unit
1201 Elmwood Park Boulevard
New Orleans, Louisiana 70123-2394
Public Notice of Federal Consistency review of a Proposed Exploration Plan by the Coastal Management Section/Louisiana Department of Natural Resources for the Plan's consistency with the Louisiana Coastal Resources Program.

APPLICANT: Phillips Petroleum Company  
Post Office Box 51107  
Lafayette, Louisiana 70505-1107  
Attention: Mr. Louis Hoover, III

LOCATION: West Cameron Block 118  
Lease OCS 0757  
Lease offering date May, 1960

DESCRIPTION: Proposed development plans for the above area provide for the development drilling and completion of Wells Nos. 16, 17, 18 and 19. Activities will include drilling from a jack-up type rig and transport of drilling crews and equipment by helicopter and/or cargo vessel from an onshore base located at Grand Chenier, Louisiana. No ecologically sensitive species or habitats are expected to be located near or affected by these activities.

A copy of the Plan described above is available for inspection at the Coastal Management Section Office located on the 10th Floor of the State Lands and Natural Resources Building, 625 North 4th Street, Baton Rouge, Louisiana. Office hours: 8:00 a.m. to 4:30 p.m., Monday through Friday. The public is requested to submit comments to the Coastal Management Service. Attention: OCS Plans, Post Office Box 44396, Baton Rouge, Louisiana 70804. Comments must be received within 15 days of the date of this notice or 15 days after the Coastal Management Section obtains a copy of the Plan and it is available for public inspection. This notice is provided to meet the requirements of the NOAA Regulations on Federal Consistency with approved Coastal Management Programs.