Amoco Production Company
Attention: Mr. H. C. Van, Jr.
Post Office Box 50879
New Orleans, Louisiana  70150

Gentlemen:

Reference is made to the following plan received June 8, 1995:

Type Plan - Supplemental Development Operations Coordination Document
Lease - OCS 0590
Block - 177
Area - Ship Shoal
Activities Proposed - Wells E, F, and G

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-3688 and should be referenced in your
communication and correspondence concerning this plan.

Sincerely,

(Orig. Sgd.) Kent E. Stauffer

For

Donald C. Howard
Regional Supervisor
Field Operations

bcc: Lease OCS 0590 POD File (MS 5032)
    MS 5034 w/public info. copy of the plan

MTolbert:cic:06/20/95:DOCDCOM
H.C. Van, Jr.
Manager, Environmental, Safety & Regulatory Affairs

June 6, 1995

File: HCV-LF

Minerals Management Service
Office of Field Operations
1201 Elmwood Park Boulevard
New Orleans, LA  70123-2394

Attention: Regional Supervisor

Supplemental Development Operations
Coordination Document
Ship Shoal Block 177, OCS-G-0590
Offshore, Louisiana

In accordance with Title 30 CFR Part 250.34 effective May 31, 1988, and letters FO-2, dated October 12, 1988 effective October 24, 1988, FO-2-1, dated September 2, 1989 and September 27, 1989, please find attached nine copies of Amoco Production Company's Supplemental Development Operations Coordination Document for operations to be conducted on Ship Shoal Block 177 OCS-G-0590.

Amoco respectfully requests your earliest favorable attention to this matter. Should further information be required, please contact me at telephone 504/586-6567.

Sincerely,

H.C. Van, Jr.

HCV

Attachments
SUPPLEMENTAL DEVELOPMENT OPERATIONS COORDINATION DOCUMENT

SHIP SHOAL BLOCK 177

OCS-G-0590

OFFSHORE, LOUISIANA

BEST AVAILABLE COPY

AMOCO PRODUCTION COMPANY
HARTY C. VAN, JR.
SENIOR PETROLEUM ENGINEERING ASSOCIATE
(504) 586-6567
NEW ORLEANS, LOUISIANA

June 6, 1995
A COMPLETE DESCRIPTION OF THE PROPOSED DEVELOPMENT ACTIVITIES TO BE UNDERTAKEN INCLUDING A TENTATIVE SCHEDULE OF THE DATES AND SEQUENCES FOR DRILLING WELLS AND INSTALLING FACILITIES.

Amoco Production Company 50%, and Texaco 50%, acquired Ship Shoal Block 177, OCS-G-0590, in the September 1955 lease sale for $1.215 MM. The block is located in the Gulf of Mexico approximately 34 miles southwest of Terrebonne Parish, Louisiana in approximately 90' of water.

Amoco's plans call for drilling three wells and installing a compressor.

Activities proposed in the subject Development Operations Coordination Document are covered by a $3,000,000 area wide bond for subject lease.

Please reference Attachment No. 1 for the detailed Timing Schedule of the development plan.

A BRIEF DESCRIPTION OF THE TYPE OF DRILLING UNIT TO BE USED INCLUDING A DISCUSSION OF ITS IMPORTANT SAFETY AND POLLUTION-PREVENTION FEATURES.

The well will be drilled with a jack-up type drilling rig, similar to the Sonat DF-86. The rig is equipped with all the pollution-prevention and drilling equipment required by Title 30 CFR Part 250, Subparts C - Pollution Prevention and D - Drilling Operations. See Attachment 2 for the rig description.

Ship Shoal 177 E & F will be drilled from the existing "A" platform. Production will be processed by existing equipment at the Ship Shoal Block 177 "A" Platform. An additional compressor will be installed. The G location will be drilled from the No. 5 caisson outboard of an existing 4-pile platform which is already tied in by flowline to the "A" platform where processing will take place.

A complete safety system will be installed to shut off the wellhead in the event of potentially environmentally damaging occurrences. This system will shut in a wing valve on the Christmas tree and if further progression of unwanted events are initiated, a lower master valve and a down hole surface controlled subsurface safety valve will shut to stop hydrocarbon flow. This safety system will sense and stop unwanted events such as over pressure, low pressure, high level, low level, fire and other characteristics of flow which could result in environmental damage. These systems will be installed and maintained in accordance with current MMS regulations.

Amoco will be in compliance with all applicable safety and pollution standards of the MMS, USCG, OSHA and EPA. These safety standards will include but not be limited to:

- **Navigation Lights & Horns** For drilling and production
- **Survival Capsules** For drilling and production
- **Life Rafts & Throw Rings** For drilling and production
- **Fire-Fighting Equipment** For drilling and production
- **(Both Dry Chemical & Light Water)**
- **Warning Horns** For drilling
Blow Out Preventers
Safety Shut-Down Systems
(As listed for Environmental)
Personnel Station Bills

For drilling
For production
For drilling and production

Operations personnel will be in compliance with Title 30 CFR Part 250, Subpart 0 - Training. All personnel will be trained and will carry on drills and inspections to insure the proper maintenance and the ability to utilize all the existing equipment to the fullest extent to insure as safe an operation as possible.

There are no existing or planned monitoring systems for measuring environmental conditions for impact assessment in the lease area as none are required by the lease stipulations.

In accordance with 30 CFR 250.51(c), Amoco may be required to collect oceanographic, meteorological, and drilling unit performance data. Amoco will record and report this information when required.

A TABLE INDICATING THE SL, BHL, TVD, AND WATER DEPTH FOR EACH PROPOSED WELL. (THE BHL'S AND TVD'S MAY BE OMITTED FROM PUBLIC INFORMATION COPIES OF THE PLAN.)

<table>
<thead>
<tr>
<th>Ship Shoal Block 177:</th>
<th>BEST AVAILABLE COPY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Well &quot;E&quot;: Surface:</td>
<td>2,645' FSL &amp; 2,099' FWL</td>
</tr>
<tr>
<td>Lat: 28deg 36' 08.92&quot;</td>
<td>Long: -91deg 16' 41.55&quot;</td>
</tr>
<tr>
<td>97' Water Depth</td>
<td></td>
</tr>
<tr>
<td>Well &quot;F&quot;: Surface:</td>
<td>2,645' FSL &amp; 2,099' FWL</td>
</tr>
<tr>
<td>Lat: 28deg 36' 08.92&quot;</td>
<td>Long: -91deg 16' 41.55&quot;</td>
</tr>
<tr>
<td>97' Water Depth</td>
<td></td>
</tr>
<tr>
<td>Well &quot;G&quot;: Surface:</td>
<td>995' FSL &amp; 4,360' FEL</td>
</tr>
<tr>
<td>Lat: 28deg 35' 52.53&quot;</td>
<td>Long: -91deg 14' 59.26&quot;</td>
</tr>
<tr>
<td>95' Water Depth</td>
<td></td>
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</tbody>
</table>

A CURRENT STRUCTURE MAP (8 1/2" X 11") OF THE EXPECTED PRODUCTIVE FORMATIONS SHOWING THE SL AND BHL OF EACH PROPOSED WELL. (THIS MAP MAY BE OMITTED FROM PUBLIC INFORMATION COPIES OF THE PLAN.)

NOTE: Amoco Production Company believes all geologic information submitted under this section to be exempt from disclosure under the Freedom of Information Act and its implementing regulations. All Geological and Geophysical data including interpretations thereof, appearing on the map(s) are the private and confidential property of Amoco Production Company. The publication or reproduction thereof without the written permission of said company is strictly prohibited.

Attachment Nos. 3 and 4 are structure maps demonstrating structural relationships.
A BATHYMETRY MAP (8 1/2" X 11") SHOWING THE SL OF EACH PROPOSED FIXED STRUCTURE AND WELL.

Attachment No. 5 illustrates the surface locations of the proposed wells on a bathymetry map of the Block.

AN ANALYSIS OF ANY SEA FLOOR AND SUBSURFACE GEOLOGIC AND MAN-MADE FEATURES AND CONDITIONS WHICH MAY HAVE AN ADVERSE EFFECT ON THE PROPOSED OPERATIONS. THE ANALYSIS SHALL ADHERE TO THE PROVISIONS OF PARAGRAPH II.A OF NTL NO. 83-3.

Shallow Hazard Report, previously provided confirmed that the proposed surface locations are free of seafloor anomalies, surface faults and shallow gas accumulations.

As this lease was obtained in 1955 an archeological survey was neither required nor conducted.

The entire Marine High-Resolution Geophysical Survey Report for Block 177 was previously forwarded.

Amoco has complied with NTL 83-3 and will take all steps necessary to ensure that development and production operations are conducted in a competent manner, with a minimum risk to human life and the environment.

A SITE SPECIFIC OSCP AS DESCRIBED IN 30 CFR 250.42 OR A BRIEF DESCRIPTION OF THE APPROVED COMPANY REGIONAL OSCP FOR THE GOM THAT INCLUDES, AS IT PERTAINS TO THE PROPOSED OPERATIONS, (1) IDENTIFICATION OF THE PRIMARY LOCATION OF CONTAINMENT AND REMOVAL EQUIPMENT, (2) AN ESTIMATION OF THE TIME REQUIRED FOR MOBILIZATION, TRANSPORTATION, AND DEPLOYMENT ONSITE OF THE EQUIPMENT AND MATERIALS, AND (3) A DISCUSSION WHICH IDENTIFIES THE ZONE(S) THAT APPROPRIATE AND AVAILABLE TRAJECTORY ANALYSES INDICATE MAY BE IMPACTED BY AN OIL SPILL, THE ENVIRONMENTALLY SENSITIVE RESOURCES AND AREAS WITHIN THE IMPACT ZONE(S), AND THE STRATEGIES TO BE USED TO PROTECT THESE RESOURCES FROM OIL SPILLS. IN THE DISCUSSION, IDENTIFY THE SPECIFIC SOURCE DOCUMENTS WHICH WERE USED TO DETERMINE THE IMPACT ZONE(S), THE ENVIRONMENTALLY SENSITIVE RESOURCES AND AREAS THAT COULD BE AFFECTED, AND THE OIL SPILL RESPONSE STRATEGIES.

Amoco's Oil Spill Contingency Plan is on file with the MMS and was last approved by the MMS on January 4, 1993. Amoco has submitted its 1995 OSCP and is currently waiting approval. This plan is considered by Amoco to be a management tool. Its function is to provide the background and planning that are necessary in order to be prepared for rapid and judicious response in the event of a spill. It is not intended to limit or direct the activities of those responsible for containment and cleanup in the event of an actual spill. Under the emergency conditions of a spill, the decisions that must be made will be governed by conditions at the time of the spill and those occurring through the containment and cleanup phases.

Amoco's OSCP addresses company policies and procedures for responding to spills, hierarchy of personnel responsibilities, instructions for notification of spill, and information on various emergency procedures.
To help minimize the possibility of occurrence of a spill, Amoco will utilize state-of-the-art drilling and blowout prevention equipment and the best possible drilling practices by thoroughly trained personnel. In the unlikely event of an accidental spill, Amoco will utilize Clean Gulf Associates (CGA) equipment for cleanup purposes. The primary stockpile for this operation is located in Grand Isle, Louisiana, but Amoco may utilize additional stockpiles in other Louisiana, Texas, Alabama and Florida locations, if they are needed.

CGA has five general types of equipment -- fast response open-sea skimmer systems, a high volume open-sea skimmer system, shallow water skimmer systems, communications equipment, and boat and helicopter spray systems. CGA also maintains a stockpile of dispersant which can be applied by boat, helicopter, or fixed-winged aircraft. Specific information on CGA equipment and supplies is contained in the CGA Operations Manual. Response and resource mobilization plans are outlined in Amoco's Oil Spill Contingency Plan along with the CGA Operations and "Ready Reference" Equipment Manuals.

In addition to those systems commonly utilized by industry to prevent pollution, Amoco is a member of Clean Gulf Associates which was founded in 1972 as a non-profit organization of energy companies cooperating to provide oil containment and clean-up capabilities in the Gulf of Mexico.

The organization contracts with Halliburton Services, a division of the Halliburton Company, to procure and maintain in 24-hour readiness the most advanced oil spill containment and clean-up equipment available and to train personnel of member companies in its proper use. In addition, Amoco has contracted with Peterson-Reidel and International Cleanup, Inc. to provide trained personnel to respond on a 24 hour per day basis to any spill as directed by Amoco.

Existing CGA oil spill skimming equipment with beach protection and bird cleaning stations can be on hand within 13.0 hours in the event of a spill.

Procurement Time

Acquire Vessel/Boat from WD90 Field to Fourchon 4.0 hrs. *3 hrs. used to acquire personnel *2 hr used to assemble equipment

Subtotal 4.0 hrs.

Load Equipment 1.0 hr.

Travel Time Inland Waters 0.5 hrs. @ 9.2 mph

Travel Time Gulf Waters 7.0 hrs. @ 11.5 mph

Deploy equipment 0.5 hrs.

Total 13.0 hrs.

This equipment is maintained on standby and in a ready state at locations such as Panama City, Florida; Theodore, Alabama; Venice, Marrero, Metairie, Grand Isle, Houma, Intracoastal City, and Cameron, Louisiana; Texas City, Galveston, Fulton, Port Aransas, and Corpus Christi, Texas.

Amoco will be in compliance with all applicable safety and pollution standards of the MMS, USC, OSHA, and the EPA. All personnel will be trained in the proper maintenance of existing equipment and will participate in drills and inspections designed to enhance their ability to utilize the equipment to its fullest extent and ensure as safe an operation as possible.
The main emphasis of Amoco's present lease area spill contingency planning will be on at-sea containment and mechanical recovery. However, this contingency planning effort does not discount the possibility of a spill reaching a sensitive coastal region.

According to the Draft EIS, MMS 95-0017, Figure IV-2, Ship Shoal Block 177 is located within Oil Spill Launch Site C38 and any spill in this site would affect Land Segments 12, 13, 14, 15 and 16 which are Cameron, Vermilion, New Iberia, St. Mary and Terrebonne Parishes in Louisiana. According to Table 6 in MMS 95-0026, the respective spill probabilities are 9%, 9%, 5%, 2% and 2% respectively.

A spill in these land segments would affect those biologically sensitive areas shown on Louisiana Maps 5 and 6 of Volume II of the CGA Operations Manual. Amoco would initiate the outlined protection response modes for the affected biologically sensitive area as provided in the CGA Manual for Louisiana Maps 5 and 6.

In the unlikely event Amoco's cleanup activities require additional support, the U. S. Coast Guard has Basic Ordering Agreements (BOA's) with local cleanup companies throughout the Gulf. These companies are used on a rotational basis. For large spills, the USCG Gulf Strike Team, located in Mobile, Alabama, is available upon request by the on-scene coordinator.

A DISCUSSION OF ANY NEW OR UNUSUAL TECHNOLOGY TO BE EMPLOYED. THIS DISCUSSION MAY BE OMITTED FROM PUBLIC INFORMATION COPIES OF THIS PLAN. (FOR POE'S THAT ARE SUBJECT TO CZM CONSISTENCY REQUIREMENTS, THIS INFORMATION WILL BE PROVIDED WHEN COMPLYING WITH THE ENVIRONMENTAL INFORMATION REQUIREMENTS OF NTL NO. 86-09 WHICH ARE PRESENTED LATER IN THE PLAN.

No new or unusual technology will be employed during this proposed development operation.

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A DISCUSSION OF THE MEASURES THAT HAVE BEEN OR WILL BE TAKEN TO SATISFY THE REQUIREMENTS OF APPLICABLE OPERATIONAL LEASE STIPULATIONS.

The lease agreement for this Block contains no unusual operational lease stipulation requirements.

A DISCUSSION OF THE QUANTITY, RATES OF DISCHARGE, AND COMPOSITION OF SOLID AND LIQUID WASTES AND POLLUTANTS LIKELY TO BE GENERATED BY ONSHORE AND OFFSHORE ACTIVITIES AND TRANSPORTATION OPERATIONS (INCLUDING, BUT NOT LIMITED TO, DRILLING MUDS AND CUTTINGS, PRODUCED WATER SEWAGE, AND CHEMICALS): THE BASIS FOR DETERMINING THE COMPOSITION, QUANTITIES AND RATES OF DISCHARGE OF POLLUTANTS: AND PLANS FOR TREATING, STORING, TRANSPORTING, AND DISPOSING OF SUCH WASTES AND POLLUTANTS.

Any discharges from the drilling rig will be treated and monitored as required by the EPA NPDES permit for the Block (SS 177 GMG290005-076A).

The estimated solid and liquid drilling waste quantities expected to be discharged from each well from the proposed activities are given below:
Drilling Cuttings 816 bbl/well
Drilling Muds 274 bbl/well

A brief discussion of these wastes follows. All discharges will be in compliance with the EPA NPDES Permit. The drilling cuttings from this operation will amount to approximately 816 bbl/well. These cuttings, generated at the drill bit and through chemical and mechanical erosion of the well-bore walls, are brought to the surface by the drilling muds. The cuttings are separated from the muds by fine screen shakers and centrifugal separators. After separation, the cuttings are discharged overboard and the muds are retained. The anticipated drilling cuttings discharge volumes and rates are based on the length of the interval to be drilled, hole size, estimated hole washout, and the projected time to drill the interval. See Attachment No. 1, Timing Schedule.

Approximately 274 bbl/well of drilling fluids will be discharged. These discharges include occasional excess cement slurry. The composition of drilling muds used in a particular well drilling program is determined by the conditions encountered as the well is being drilled. Components of the drilling fluid for these wells may include any or all of the following: barite, bentonite, caustic soda, lignosulfonate, lignite, aluminum stearate, soda ash, phosphate, gilsonite, polyionic cellulose, polyacrylamide, starch, bicarbonate of soda, lime, lost circulation material including KWIK SEAL and walnut hulls, carbomethylcellulose (CMS), non-toxic lubricants including COASTALUBE, ENVIROLEBE, DL-100 and DATALUBE, non-toxic spotting fluids including SPOTTY, NO-OIL, COASTASPOT, GLQ-2000, and bacteriicides excluding halogenated phenols. Any drilling mud, drill cuttings, sand, or other solids will not be discharged into the Gulf unless the toxicity as measured by the EPA "Drilling Fluids Toxicity Test" is above the 30,000 ppm limitation. In addition, no discharges that cause a sheen to appear on the surface of the water, will be made.

The drilling mud program is based on using several of the eight approved generic fluids which have been tested to establish toxicity and bioassay data as part of the Mid-Atlantic Bioassay Program. Special additives may be required on a non-routine basis to help free differentially stuck pipe. These additives are inert, or if mixed with mineral oil, will not be discharged into the Gulf unless all of the free oil has been removed. Any oil contaminated muds will be transported to shore for disposal at an approved facility or sold back to a mud company. All drilling rig discharges will be in compliance with the EPA NPDES Permit.

Solid wastes other than those generated at the onshore base will include combustibles (plastic containers, rags, miscellaneous timber, and paper from charts and forms) as well as some metals generated during the drilling operations. The amount of combustibles generated will be approximately 500 cu. ft. per day during the drilling operations. The drilling and completion operations are expected to take 45 days. The combustibles will be compacted and/or collected in metal trash containers and shipped to the onshore support base for incineration or disposal at an approved disposal facility. Some of the metal, may be reused and reworked. The remaining metal wastes will be transported to the onshore base and sold as scrap. Approximately 300 lb/wk of scrap metal is expected during the drilling phase. This figure is highly variable depending on the phase and circumstances of the operations.

Solid wastes generated at the onshore support base will be variable depending on a variety of factors including the level of drilling and installation activities, the number of supply vessels operating and their
travel frequencies, and the number of onshore support personnel required. These wastes, consisting primarily of packing materials, containers, clothes, drums, cables, spools, and domestic refuse, will be recycled or reclaimed. The remaining material will be delivered to an approved disposal facility.

The estimated solid and liquid waste quantities expected to be generated from the proposed activities are given below.

Sanitary Wastes (45 days @ 35 bbl/day) = 1,575 bbl
Solid Wastes:
  Combustibles (45 days @ 500 cu ft/day) = 22,500 cu ft
  Metals (45 days @ 300 lb/week) = 1,929 lb
Domestic Wastes (45 days @ 100 bbl/day) = 4,500 bbl

Approximately 1,575 bbl of sanitary wastes will be generated. Sanitary wastes originate from commodes and urinals in the drilling rig and tugs. These facilities are equipped with sewage treatment plants approved by the USCG. The sewage treatment plant of the drilling rig has an approximate limit of 85 bbl/day or 120-man capacity. Peak periods of use will occur at 0600, 1200, and 1800 hours.

Domestic wastes from sinks, showers, and washing machines aboard the tugs will not contain any floating solids. The composition of the liquid domestic wastes is freshwater used for cooking, drinking, and washing and is discharged overboard. The total volume of these wastes will be approximately 4,500 bbl, depending on the size of the vessel crews and the number of other company and service personnel on board.

A DISCUSSION OF THE MEASURES THAT HAVE BEEN OR WILL BE TAKEN TO SATISFY THE REQUIREMENTS OF 30 CFR 250.67 (c) REGARDING H2S AREA CLASSIFICATION AND CONTINGENCY PLANS.

As no previously drilled wells in the area encountered any H2S, Amoco requests that Ship Shoal Block 177 be approved by the Regional Supervisor as an operations area where the absence of H2S has been confirmed.

CERTIFICATE(S) OF COASTAL ZONE CONSISTENCY, AS REQUIRED BY 15 CFR 930 AND DISCUSSED IN SECTIONS III AND IV OF NTL NO. 86-09, PREPARED IN THE FORMAT PRESCRIBED IN SECTION IV OF THE ENCLOSURE TO NTL 86-09.


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A LIST SHOWING THE PROJECTED EMISSIONS OF SO2, TSP, NOX, CO, AND VOC. THE LIST SHALL INCLUDE ALL PROJECTED EMISSIONS FROM EACH SOURCE AND FROM EACH OCS FACILITY EXPRESSED IN POUNDS PER DAY AND IN TONS PER YEAR FOR EACH YEAR OF OPERATION AND THE BASIS FOR ALL CALCULATIONS. A SCHEMATIC DRAWING WHICH IDENTIFIES THE LOCATION AND ELEVATION OF EACH SOURCE ON EACH OCS FACILITY SHALL ALSO BE INCLUDED.

Please reference Attachment No. 6 "Air Quality" for specific required data on air emissions during the drilling and installation operations. The drilling rig emission producing equipment is located within the rig hull
and the average elevation of each source is 60 feet above the water surface.

Projected emissions calculations were not based on the use of emission control technology and emissions proposed in this plan do not exceed allowable limitations.

Emissions proposed in the plan will not exceed allowable limitations.

Environmental Information, as discussed in sections I, II, and IV, of NTL No. 86-09, prepared in accordance with guidelines in sections II.A, II.B, or III of the enclosure to NTL No. 86-09. This environmental information should be provided in a separate volume. (Please note that the term "Environmental Report" as used in NTL No. 86-09 is synonymous with the "Environmental Information" required by this paragraph.)

The Environmental Report required by Section 307 of the Coastal Zone Management Act (CZMA) was previously forwarded.

A brief description of the onshore base to be used to support the development activities including information as to whether the facilities at the base are existing, proposed, or are to be expanded; a brief description of support vessels to be used and information concerning their frequency of travel; and a map showing the lease relative to the shoreline which depicts proposed transportation routes. (This information is required only to the extent that it is not provided when complying with the requirements of the environmental information section listed above.)

Operations will be conducted out of Amoco's base facility at Fourchon, Louisiana located 6 miles southwest of Leeville, Louisiana. No expansion of the existing facility is proposed. The base can be reached by state highway and is equipped with both a heliport and boat handling facility. Ample parking, sewage, water, and electricity are available. There are no known additional impacts that will result from the proposed activities.

Please reference Attachment No. 7, Location Map, which shows the location of Ship Shoal Block 177 in relation to the shoreline and the proposed vessel transportation routes.

When any well or associated anchoring locations are proposed in water depths greater than 400 meters, an analysis of the evidence and consequences of geological phenomena (such as hydrocarbon charged
SEDIMENTS, SEISMIC WIPE-OUT ZONES, ANOMALOUS MOUNDS OR KNOLLS, GAS VENTS, OR OIL SEEPS) THAT COULD SUPPORT CHEMOSYNTHETIC ORGANISMS.

As these proposed development operations are in water depths of less than 400 meters, this requirement does not apply.

DURING THE REVIEW OF A DOCD, THE SUBMITTAL OF COPIES OF CDP SEISMIC LINES NEAR PROPOSED WELL LOCATIONS MAY BE REQUIRED.

In accordance with Title 30 CFR Part 250.33(b)(1)(ii), full scale and appropriate, migrated Common Depth Point seismic lines were previously provided.

THE NAME, ADDRESS, AND TELEPHONE NUMBER OF AN AUTHORIZED REPRESENTATIVE OF THE LESSEE TO WHOM INQUIRIES MAY BE DIRECTED.

HARTY C. VAN, JR.
SENIOR PETROLEUM ENGINEERING ASSOCIATE
AMOCO PRODUCTION COMPANY
P. O. BOX 50879
NEW ORLEANS, LOUISIANA 70150
(504) 586-6567
<table>
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- Drill & Complete E: 15 Days
- Drill & Complete F: 15 Days
- Drill & Complete G: 15 Days
- Install Compressor & Related Equipment

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ATTACHMENT NO. 1
ATTACHMENT A

EQUIPMENT LIST

SONAT D-F 86

SECTION I: DATA SHEET FOR SONAT D-F 86

Company Name: Sonat Offshore Ventures, Inc.
Headquarters Address: P. O. Box 2765, Houston, 77252-2765
Telex: 775139 Telephone: 713-871-7500

A. Rig Name/Number: SONAT D-F 86

1. Country of Registry: USA
2. Classification: ABS

B. Vessel Specifications: Year Built: 1980
By (Shipyard): Bethlehem Steel Corporation

2. Number of legs: 3 Length of legs: 269 ft.
3. Water depth capabilities:
   a. Maximum Non-hurricane Season: 200'
   b. Required Air Gap: 50'
   c. Maximum Hurricane Season: 175'
   d. Required Air Gap: 50'
   e. Minimum Operating Water Depth: 25'

4. Drilling Depth: 20,000'

5. Dimensions:
   a. Depth of Hull: 18'
   b. Height of Mat (footings): 10' + 2' Scour Skirt (12' total)
   c. Diameter of Spud Cans (footings): N/A
   d. Cantilever (from transom to maximum drilling position): 45'
   e. Standard Drilling Position: 15' to 45'
   f. Mat Overall Length: 220'
   g. Mat Overall Width: 185'
   h. Mat Depth: 10' + 2' Scour Skirt (12' total)
   i. Caisson: Number: 3 Diameter: 11'
   j. Columns: Number: 3 Diameter: 11'

02/22/90 - 1 -
k. Scour Skirt Depth: 2'

1. Drilling Area:
   Mat Slot:
     Length: 110' x 59'
     Width: 45'
   Width: 20'

6. Maximum length of leg and spud cans/mats available below drilling unit for bottom penetration, air gap and water depth:
   176' to maintain a 50' air gap

7. Minimum draft:
   (Light ship load including minimum draft or spud cans/mats.) 22'

8. Bottom of barge to top of jack house: 43'

9. Helideck Dimensions:
   Maximum Helicopter Size and Type:
   60' x 70' Sikorsky S-61

10. Towing:
    a. Normal Towing Draft: 22'
    b. Towing Power Requirements:
       Minimum H.P. per Tug:
       Minimum Number of Tugs: As per Mathews Daniels
       Minimum Total H.P.: 2
    c. Wave Height Rating:
       During Mob/Drilling Mode: 45'
    d. Wind Speed Rating:
       During Mob/Drilling Mode: 70 Kts.

11. Variable Deck Load:
    Drilling: 4,500 Kips*
    Transit: 3,145 Kips
    Survival: 3,500 Kips

*Includes hook, rotary, and setback loads.

12. Variable Deck Load for Different Water Depths:

<table>
<thead>
<tr>
<th>Water Depth</th>
<th>Variable Deck Load Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>4,500 K*</td>
</tr>
<tr>
<td>185</td>
<td>4,500 K*</td>
</tr>
<tr>
<td>175</td>
<td>4,500 K*</td>
</tr>
</tbody>
</table>

*Includes hook, rotary and setback loads.
C. Operating Water Depths:
Maximum rated water depth: 200' Minimum rated water depth: 25'

D. Storage Capacities
2. Potable Water: 1,000 bbis.
4. Bulk Mud: 4 Tanks at 750 cu.ft. - 952 sacks/EA
5. Bulk Cement: 2 Tanks at 1500 cu.ft. - 3,000 sacks
6. Bulk Cement: 1 Tanks at 820 cu.ft. - 766 sacks
7. Liquid Mud: 4 Tanks at 1,400 bbis.
8. Sack Storage: 3,000 sacks or 750 lbs. PSF
9. Pipe Racks: No. Outboard Dimension
   Outboard P/S 193,000 p/s each.
10. Casing Storage: 2,208 sq. ft. Inboard P/S
    Center: 407,000 lbs. total each

11. Variable Deck Load:
    Drilling: 4,500 Kips*
    Transit: 3,145 Kips
    Survival: 3,500 Kips
   *Includes hook, rotary, and setback loads.

12. Variable Deck Load for Different Water Depths:
    Water Depth Variable Deck Load Capacity
    200 4,500 K*
    185 4,500 K*
    175 4,500 K*
   *Includes hook, rotary and setback loads.

SECTION II: VESSEL SYSTEMS AND EQUIPMENT

A. Quarters, Medical
1. Operational: 56 Men
2. Hospital: 3 Beds
3. No. of Offices: 2

B. Firefighting, Gas Detection and Safety
1. Fire Extinguishers:

02/22/90 - 3 -
<table>
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<tr>
<th>Type</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>EX607</td>
<td>150#</td>
</tr>
<tr>
<td>EX607</td>
<td>11#</td>
</tr>
<tr>
<td>Halon</td>
<td>11#</td>
</tr>
<tr>
<td>DC</td>
<td>11#</td>
</tr>
<tr>
<td>CO₂</td>
<td>2</td>
</tr>
<tr>
<td>500</td>
<td>2</td>
</tr>
<tr>
<td>A</td>
<td>2</td>
</tr>
<tr>
<td>Engine</td>
<td></td>
</tr>
</tbody>
</table>

2. Fire detection system and location:
   a. Smoke detector only in Living Quarters

3. Gas Detector
   a. Location: Possum Belly (Rented)

C. Lifesaving Equipment

1. Escape Capsules
   - No.: 1
   - Make: Whitaker
   - Capacity: 28 Men

2. Inflatable Life Rafts
   - No.: 1
   - Make: Self Inflating
   - Number: 3
   - Size: N/A
   - Capacity: 20 Men

3. Life Jackets
   - Make: The Safeguard Corp.
   - Type: #1 Model 3
   - No.: 82

4. Ring Buoys
   - No.: 8

5. Work Vests
   - No.: 17

D. Heliport

1. Helideck Dimensions:
   - 60' x 70'
2. Maximum Helicopter Size and Type:
   - Sikorsky S-61

E. Communications Equipment

1. To Ship/Shore:
   - Marioner:
   - Southern Avionics:
   - Intercom:
   - Harris Type RF236-SSB
   - VHF/FM 80
   - Radio Beacon
   - Gal Tronics

02/22/90
F. Power Generation and Distribution

1. Main Power
   a. Diesel Engines
      Number: 4
      Manufacturer: Caterpillar
      Model No.: D-399
      Output HP ea: 1165
   b. Generators
      Number: (AC) 4 (DC) 1
      Manufacturer: G.E.
      Output KW: 930
   c. Emergency Generator
      Manufacturer: G.E.
      Type: AC
      Output: 450KW

G. Compressed Air Components

1. Air Compressors
   a. No: 1
      Type: LeRoi 7552
      Power Source: 75 HP 480 Volt
      Total Rated Capacity: 425 cfm at 120 psi.
   b. No: 1
      Type: Gardner-Denver ECPSHB
      Power Source: 100 HP 480 Volt
      Total Rated Capacity: 425 cfm at 120 psi.

2. Bulk Air Compressors
   Type: LeRoi 505I 485 cfm at 40 psi.

3. Air Dryer System
   McKenzie - Arrow Model 3516

H. Sanitation and Sewage Systems

1. Sewage Treatment Unit
   Type: Red Fox
   Capacity: 2,000

I. Materials Handling, Cranes, Elevators, Air Hoists

1. Cranes
   a. Number Type Capacity Boom Length
      1 Link Belt 45 Tons 100'
      1 Link Belt 45 Tons 100'
   b. Slings and bridles for loading or offloading cargo: Yes

2. Fork Lift
   a. Make and Model: N/A

02/22/90 - 5 -
3. Air Tuggers
   a. No.:  
      Type:  
      Size:  
      Location:  
   b. No.:  
      Type:  
      Size:  
      Location:  

J. Welding, Machine and Electrical Shop Equipment

1. Welding Machines
   a. No:  
      Type:  
   b. No:  
      Type:  

SECTION III. MAJOR DRILLING EQUIPMENT

A. Derrick and Limitations

1. Derrick
   Make:  
   Model:  
   Gross Nominal Capacity:  
   Height:  
   Height of Rig Floor  
   Wind Break:  
   Static Hookload Capacity  
   w/12 lines is:  

2. Substructure
   Make:  
   Longitudinal Movement:  
   Transverse Movement:  
   Floor Width:  
   Length:  
   Height from cellar deck  
   to underside of  
   rotary beams:  
   Height from cellar deck  
   to rotary kelly bushing:  
   Maximum pipe setback  
   capacity:  
   Maximum rotary table  
   supporting capacity  
   irrespective of  
   setback load:  
   Wind break on  
   substructure:  

2 Westinghouse  
500 AMP  
1 Lincoln  
600 AMP  

DSI  
DAD 101149  
1,392,000#  
147'  
14'  
1,000,000 lbs.  
Bethlehem  
45'  
20' 10' P-10's  
30  
30  
38'  
44'  
500,000 lbs.  
750,000 lbs.  
No
B. Drill String Racking and Manipulator System

1. Drill Pipe Spinners
   a. Type: Varco
      Size: SSW-10

C. Drawworks

1. Drawworks
   a. Manufacturer: National
      Model: 1320 VE
      HP: 2000
      Powered by: (2) G.E. 752 Motors

2. Sand Reel
   a. 20,000'

3. Auxiliary Brake
   a. Model: Dretech 8350

D. Rotary

1. Rotary Table
   a. Manufacturer: National
      Model: C-375
      Max. Bore: 37-1/2"
      Driven By: GE 752
      No: 1
      HP: 850
      Rotary Bushing: Varco
      Master Bushing: Varco

E. Kelly

1. Kelly
   No: 2
   Make: Lone Star Kellys
   Size: 5-1/4" Hex. X 2-13/16"

2. Upper Kelly Valve
   No: 2
   Make: OMSCO
   PSI Test: 10,000 PSI WP 15,000 PSI Test

3. Lower Kelly Valve
   No: 3
   Make: TIW 4-1/2 IF Bail Type
   PSI Test: 10,000

4. Kelly Spinner
   Make: International
   Model: A6C-2

02/22/90 - 7 -
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D.S.I.
Special made for DSI 147'
Derrick
583 Tons
No: 6
48"
1-3/8" E.I.P. Grade

CBP-1 Koomey, Inc. Crown Block Protector

F. Crown Block
Manufacturer:
Model:

Rated At:
Sheaves:
Diameter:
Drill Line:

Crown-O-Matic
Model:

G. Traveling Block, Hook, and Swivel

1. Traveling Block
Manufacturer:
Model:
Rated at:
Sheaves:
Diameter:

National
650G500
500 Tons
No: 6
50"

2. Hook
Manufacturer:
Model:
Rated at:

National
500
500 Tons

3. Swivel
Manufacturer:
Model: LB-500
Rated at:
PSI WP:

Emsco
500 Tons
5,000 PSI

H. Driller's House Instrumentation and Controls

1. Drilling Console
   Recorder
   Weight Indicator
   Rate of Penetration
   Indicator (Rented)
   Drill String Torque
   Indicator
   Rotary RPM Indicator
   Pump Stroke Speed
   Indicator (Rented)
   Pump Pressure Indicator
   Pit Level Indicator
   (Rented)
   Mud Return Line Flow
   Indicator (Rented)
   Automatic Driller
   Make-up Torque
   Indicator

   Equipped with:
   YES     NO
   x
   x
   x
   x
   x
   x
   x
   x
   x
   x
   x

02/22/90 - 8 -
1. Reel and Measuring Line for Surveys
   Size: .092 Wireline
   Length: 15,000
   Depth Rating: 18,000

I. BOP Handling Equipment.

1. Preventer Handling System: B.B. Air Power 25 Ton (2 ea.)

SECTION IV: DRILLING MUD AND CEMENT SYSTEM AND ACCESSORIES

A. Mud Pumps

<table>
<thead>
<tr>
<th>No.</th>
<th>Make &amp; Model</th>
<th>H.P.</th>
<th>Powered By</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>National 12-P-160</td>
<td>1600</td>
<td>2GE752</td>
</tr>
<tr>
<td>2</td>
<td>National 12-P-160</td>
<td>1600</td>
<td>2GE752</td>
</tr>
</tbody>
</table>

Contractor provides 6-1/2" liners and accessories. Other liner sizes and accessories will be provided at Operator's expense.

B. Mud Tanks

1. Active Pit Capacity
   Reserve Pit Capacity
   Tank 1 514
   Tank 2 325
   Tank 3 415
   Tank 4 137
   Total 1,391 bbls.

BEST AVAILABLE COPY

C. Mud Agitators

1. Pit Agitators
   No.: 4
   Location: 1,2,3,4 Pit
   Powered by: 1,2,3 - 20 HP
                4 - 10 HP

2. Mud Guns
   Number: 2
   Location: 1, 2, pits
   Powered by: Mud Mixing Pumps

D. Mud Supercharge Pumps

1. Centrifugal Mixing Mud Pumps
   Number: 2
   Size: 6 x 8 1,800 GPM
   PSI:
   Each Powered by: No.: One/75 HP Motor

02/22/90 - 9 -
E. Desander
   Make: SWACO
   Model: 212 Vertical Mount
   Powered by: 6 x 8 2 Cones 12" Diameter, 1,000 GPM

F. Desilter
   Make: SWACO
   Model: 10T4
   Powered by: 6 x 8 20 Cones 4" Diameter, 1,500 GPM

G. Degasser
   Make: SWACO
   Model: 28066
   Powered by: 75 HP G.P.M. - 1,000

H. Shale Shaker
   Make: 2 - Derrick Sandwich
   Model: Low Profile
   Powered by: Electrical Industrial Vibrator

I. Bulk and Mud System
   1. PVT & FLO SHO
      a. Description and Location of Readouts: WMCO Equipment Location at Drillers Console

   2. Barite Surge Tank
      Capacity: 40 SX

   3. Barite Hopper
      Number: 1
      Capacity: 40 SX

   4. Chemical Hopper
      Number: 2
      Capacity: Per SX

J. Rotary and Cementing Hoses
   1. Rotary Hose
      Number: 2
      Size: 3-1/2" bore
      PSI Test: 10,000
      PSI W.P.: 5,000

   2. Standpipe
      Size: 3-1/2"
      PSI WP: 5,000

02/22/90 - 10 -
K. Cementing Unit
   Co: Western
   Type: Model 4
   Power Source: 2 Ea. Detroit V6

L. Mud Cleaners
   Make: Derrick
   Model: Dual Flo line
   Powered by: Electric Vibrator
   Cones No: N/A
   Diameter: N/A

M. Pulsation Dampner
   Size: 20 Gallon Capacity
   Type: Continental EMSCO PD-55

N. Slugging Pit Capacity
   Capacity: 52 bbls.
   Trip Tank Size: 25 bbls.
   Pump Size: Gravity Feed

SECTION V: BLOWOUT PREVENTION, WELL CONTROL EQUIPMENT

A. Blowout Preventer and Control Equipment

<table>
<thead>
<tr>
<th>H 2 S</th>
<th>Nominal Size</th>
<th>Bore ID</th>
<th>Series or Working Pressure</th>
<th>Make and Type</th>
<th>Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y</td>
<td>13-5/8</td>
<td>13-5/8</td>
<td>5,000</td>
<td>Annular</td>
<td>Flange</td>
</tr>
<tr>
<td>Y</td>
<td>13-5/8</td>
<td>13-5/8</td>
<td>10,000</td>
<td>Double</td>
<td>Flange</td>
</tr>
<tr>
<td>Y</td>
<td>13-5/8</td>
<td>13-5/8</td>
<td>10,000</td>
<td>Double</td>
<td>Flange</td>
</tr>
</tbody>
</table>

B. Accumulator
   Make: Koomey
   Model: 252-10S
   Gallons: 380 Reservoir, 28 Bottles
   No.of Functions: 7
   Precharge Pressure: 1,000 PSI
   Final Pressure: 3,000 PSI

Is there an independent backup system capable of closing all preventers? YES

C. Inside BOP and Kelly Valves

1. Inside Preventers - Make: Gray

2. Kelly
   No: 2
   Make: Lone Star Kellys
   Size: 5-1/4" Hex. X 2-13/16"

02/22/90
3. Upper Kelly Valve
   No: 
   Make: 
   PSI Test: 

4. Lower Kelly Valve
   No: 
   Make: 
   PSI Test: 

D. BOP and Diverter Controls
   1. Control Stations - Rig Floor 1  Remote 1

E. Diverter System - Regan KFL -3 30" Annular 1000 PSI W.P.

F. Choke and Kill System
   1. Choke Manifold
      3-1/16" - 10,000 PSI
   2. Hydraulic Choke
      2 ea - SWACO 2-9/16" 10,000 PSI Super Choke

G. Mud Gas Separator - SWACO Print #124

SECTION VI: DRILL STRING, CASING, AND FISHING TOOLS

A. Tubulars

<table>
<thead>
<tr>
<th>Drill Pipe</th>
<th>E</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size:</td>
<td>5 OD 3-3/4 ID</td>
<td>5 OD 3-1/2 ID</td>
</tr>
<tr>
<td>Length of String:</td>
<td>7,905 Ft.</td>
<td>9,272 Ft.</td>
</tr>
</tbody>
</table>

| Nominal Weight:     | 19.50 lb/ft. | 19.50 lb/ft. |
| Range:              | 2            | 2           |
| Connection:         | 4-1/2" IF    | 4-1/2" IF   |
| Type of Hardbanding:| Fine Particle | Fine Particle |

<table>
<thead>
<tr>
<th>Drill Collars</th>
<th>E</th>
<th>G</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size:</td>
<td>8&quot;OD 2-3/4&quot;ID</td>
<td>6-1/2&quot; OD 2-3/4ID</td>
</tr>
<tr>
<td>Number:</td>
<td>12</td>
<td>10</td>
</tr>
<tr>
<td>Connection:</td>
<td>6-5/8&quot; Reg.</td>
<td>4-1/2 x H</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5-1/2&quot; H-90</td>
</tr>
</tbody>
</table>

02/22/90
B. Fishing Tools - BOWEN 150

TO CATCH 8\textsuperscript{o} DC

SPIRAL GRAPPLE
1 - Bowl - 11-3/4 OD
1 - Packer - 8\textsuperscript{o} OD
1 - Spiral Grapple - 8\textsuperscript{o} OD
1 - Control Grapple - 8\textsuperscript{o} OD
1 - Guide - 15\textsuperscript{o} OD

BASKET GRAPPLE
1 - Bowl - 11-3/4 OD
1 - Basket Grapple - 8\textsuperscript{o} OD
1 - Mill Control Packer - 8\textsuperscript{o} OD
1 - Guide - 15\textsuperscript{o} OD

TO CATCH 7-1/4 DC

1 - Bowl - 11-3/4 OD
1 - Packer - 7-1/4\textsuperscript{o} OD
1 - Spiral Grapple - 7-1/4\textsuperscript{o} OD
1 - Control Grapple - 7-1/4\textsuperscript{o} OD
1 - Guide - 11\textsuperscript{o} OD

TO CATCH 6-1/2 DC

1 - Bowl - 7-3/4 OD
1 - Packer - 6-1/2 OD
1 - Spiral Grapple - 6-1/2 OD
1 - Control Grapple - 6-1/2 OD
1 - Guide - 8\textsuperscript{o} OD

1 - Bowl - 7-3/4 OD
1 - Basket Grapple - 6-1/2 OD
1 - Mill Control Packer - 6-1/2 OD
1 - Guide - 8\textsuperscript{o} OD

TO CATCH 5\textsuperscript{o} DP

1 - Bowl - 7-3/4 OD
1 - Packer - 6-3/8 OD
1 - Spiral Grapple - 6-3/8 OD
1 - Control Grapple - 6-3/8 OD
1 - Guide - 8\textsuperscript{o} OD

1 - Bowl - 7-3/4 OD
1 - Basket Grapple - 6-3/8 OD
1 - Mill Control Packer - 6-3/8 OD
1 - Guide - 8\textsuperscript{o} OD

C. Drilling and Casing Handling Tools

1. Tongs
Type:
Accessories:
  Rotary Tongs

  Type:
  Accessories:

Byron Jackson "SDD"

2 - 4\textsuperscript{o} - 8-1/2\textsuperscript{o} Lug Jaw
2 - 8-1/2\textsuperscript{o} - 12\textsuperscript{o} Lug Jaw
2 - 12\textsuperscript{o} - 15 Lug Jaw

1 set - BJ 250 Ton 3-1/2 - 5-1/2 Elevators
1 set - WTM 350 Ton 5\textsuperscript{o} Elevators

02/22/90 - 13 -
2. Elevators
   Type: Varco
   Capacity: 
   Accessories: 1 set-Varco type DCS-R Multi-Segment 
   Drill Collar Slips with cir. buttons for Range 5-1/2" - 7" O.D. Collars

3. Slips
   2 sets - Varco type SDXL Extra Long Rotary Slips. One set - Varco Type DCS-L Multi-Segment Drill Collar Slips with circular buttons for range 8" - 9-1/2" O.D. Collars

4. Miscellaneous Handling Tools
   Varco Type MF-R Multi-Purpose Safety Clamp for 5-1/2" to 9-1/4" O.D. One Set - Varco Type PS-15 Spring Slips for 5" D.P.
<table>
<thead>
<tr>
<th>COMPANY</th>
<th>Amoco Production</th>
</tr>
</thead>
<tbody>
<tr>
<td>AREA</td>
<td>Ship Shoal</td>
</tr>
<tr>
<td>BLOCK</td>
<td>177</td>
</tr>
<tr>
<td>LEASE</td>
<td>OCS-G-0590</td>
</tr>
<tr>
<td>PLATFORM</td>
<td>A &amp; #5Caisson</td>
</tr>
<tr>
<td>WELL</td>
<td>EFG</td>
</tr>
<tr>
<td>LATITUDE</td>
<td>28deg 36' 08.92&quot; 28deg 35' 52.53&quot;</td>
</tr>
<tr>
<td>LONGITUDE</td>
<td>91deg 16' 41.55&quot; 91deg 14' 59.26&quot;</td>
</tr>
<tr>
<td>COMPANY CONTACT</td>
<td>Danny Young</td>
</tr>
<tr>
<td>TELEPHONE NO.</td>
<td>586-6670</td>
</tr>
<tr>
<td>REMARKS</td>
<td></td>
</tr>
</tbody>
</table>
SONAT OFFSHORE DRILLING

May 01, 1995

AMOCO
Offshore Business Unit
P. O. Box 59879
New Orleans, LA 70150

Attn: Danny Young

Regarding The MODI DF-86, the fuel usage while drilling has been approximately 2380 gallons per day. This is an average usage during the entire drilling program, some days are more than this an others significantly less. It should be noted that the rig has four (4) D-399 Caterpillar engines installed and in use.

It should also be noted that a Varco IDS 1 Top Drive System has been added to the rig requiring that all 4 D-399 Engines be on line while drilling operations are ongoing.

Regards,

Jimmy Moore
Drilling Superintendent

IM/dd
May 16, 1995

Amoco Production Company
P.O. Box 50879
New Orleans, Louisiana 70503

Attention: Mr. Roy Phillips

RE: Emissions Produced by Vessels Fuel Consumption

Dear Mr. Phillips:

Per your request regarding daily usage and fuel consumption on a typical vessel in these three categories (1) offshore supply vessels, (2) crew-boats and (3) utility vessels, a survey taken from the months of April, May and June 1994, has revealed the following:

<table>
<thead>
<tr>
<th>TYPE</th>
<th>AVERAGE DAILY USAGE</th>
<th>AVERAGE FUEL CONSUMPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply Vessel 183'</td>
<td>6 Hrs running p/d</td>
<td>720 gallons p/d</td>
</tr>
<tr>
<td>Supply Vessel 173'</td>
<td>6 Hrs running p/d</td>
<td>600 gallons p/d</td>
</tr>
<tr>
<td>Crew Boats</td>
<td>5.5 Hrs running p/d</td>
<td>550 gallons p/d</td>
</tr>
<tr>
<td>Utility Vessels</td>
<td>5.36 Hrs running p/d</td>
<td>250 gallons p/d</td>
</tr>
</tbody>
</table>

If we can be of further assistance please let us know.

Sincerely,

JOHN E. GRAHAM & SONS

Billy R. Maples
Administrative Manager

BRM:skb
## 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>Amoco Production</td>
<td>Ship Shoal</td>
<td>177</td>
<td>OC5-G-250</td>
<td>A &amp; #4C rins</td>
<td>2Bdag 36' 05&quot; 9</td>
<td>2Bdag 36' 41.55</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### OPERATIONS

<table>
<thead>
<tr>
<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><strong>DIESEL ENGINES</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Natural Gas Engines</td>
<td>HP</td>
<td>SCF/Hr</td>
<td>SCF/D</td>
<td>HRD</td>
<td>DAYS</td>
</tr>
<tr>
<td>Prime Mover &gt;600hp diesel</td>
<td>1165</td>
<td>56.2695</td>
<td>595.00</td>
<td>24</td>
<td>15</td>
</tr>
<tr>
<td>Prime Mover &gt;600hp diesel</td>
<td>1165</td>
<td>56.2695</td>
<td>595.00</td>
<td>24</td>
<td>15</td>
</tr>
<tr>
<td>Prime Mover &gt;600hp diesel</td>
<td>1165</td>
<td>56.2695</td>
<td>595.00</td>
<td>24</td>
<td>15</td>
</tr>
<tr>
<td>Prime Mover &gt;600hp diesel</td>
<td>565</td>
<td>27.2985</td>
<td>595.00</td>
<td>0</td>
<td>0</td>
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<tr>
<td>Vessels &gt;600hp diesel</td>
<td>3600</td>
<td>173.88</td>
<td>2400.00</td>
<td>0</td>
<td>0</td>
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<tr>
<td>Vessels &gt;600hp diesel-Crew</td>
<td>3600</td>
<td>173.88</td>
<td>2400.00</td>
<td>0</td>
<td>0</td>
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<tr>
<td>Vessels &gt;600hp diesel-Utility</td>
<td>1800</td>
<td>86.94</td>
<td>1120.00</td>
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### PIPELINE INSTALLATION

<table>
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<tr>
<th><strong>EQUIPMENT</strong></th>
<th><strong>ACT. FUEL</strong></th>
<th><strong>RUN TIME</strong></th>
<th><strong>POUNDS PER HOUR</strong></th>
<th><strong>TONS PER YEAR</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Pipeline Lay Barge diesel</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Pipeline Bury Barge diesel</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Pipeline Lay Barge Vessels</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
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### FACILITY INSTALLATION

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<th><strong>RUN TIME</strong></th>
<th><strong>POUNDS PER HOUR</strong></th>
<th><strong>TONS PER YEAR</strong></th>
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### PRODUCTION

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<th><strong>POUNDS PER HOUR</strong></th>
<th><strong>TONS PER YEAR</strong></th>
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<td>Recip &gt;600hp diesel</td>
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<td>Recip 2 cycle lean nat gas</td>
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<td>Recip 4 cycle lean nat gas</td>
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<th><strong>RUN TIME</strong></th>
<th><strong>POUNDS PER HOUR</strong></th>
<th><strong>TONS PER YEAR</strong></th>
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<td>Fugitives-</td>
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<td>Glycol Still Vent-</td>
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### 1995 YEAR TOTAL

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<th><strong>TONS PER YEAR</strong></th>
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### EXEMPTION CALCULATION

| DISTANCE FROM LAND IN MILES | 34.0 |

**BEST AVAILABLE COPY**

AQS81775.XLW  Page 1  8:37 AM 6/6/95
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<tr>
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<th>LEASE</th>
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<th>LONGITUDE</th>
<th>CONTACT</th>
<th>PHONE</th>
<th>REMARKS</th>
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<td>CC5-0-550</td>
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**OPERATIONS**

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<th>ACT. FUEL</th>
<th>RUN TIME</th>
<th>POUNDS PER HOUR</th>
<th>TONS PER YEAR</th>
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</thead>
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<td>Diesel Engines</td>
<td>HP</td>
<td>SCF/hr</td>
<td>SCF/d</td>
<td>HR/D</td>
<td>DAYS</td>
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<td>Prime Mover&gt;500hp diesel</td>
<td>1165</td>
<td>56.2695</td>
<td>595.00</td>
<td>24</td>
<td>30</td>
</tr>
<tr>
<td>Prime Mover&gt;600hp diesel</td>
<td>1165</td>
<td>56.2695</td>
<td>595.00</td>
<td>24</td>
<td>30</td>
</tr>
<tr>
<td>Prime Mover&gt;600hp diesel</td>
<td>1165</td>
<td>56.2695</td>
<td>595.00</td>
<td>24</td>
<td>30</td>
</tr>
<tr>
<td>Prime Mover&gt;600hp diesel</td>
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<td>56.2695</td>
<td>595.00</td>
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<td>30</td>
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<tr>
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<tr>
<td>Vessels&gt;500hp diesel</td>
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<td>173.88</td>
<td>2400.00</td>
<td>6</td>
<td>30</td>
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<tr>
<td>Vessels&gt;500hp diesel</td>
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<td>173.88</td>
<td>2400.00</td>
<td>6</td>
<td>30</td>
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<td>1800</td>
<td>86.94</td>
<td>1120.00</td>
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**PIPELINE INSTALLATION**

| PIPELINE LAY BARGE diesel | 0 | 0 | 0.00 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PIPELINE BUR BARGE diesel | 0 | 0 | 0.00 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SUPPORT VESSEL diesel | 0 | 0 | 0.00 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

**FACILITY INSTALLATION**

| DERRICK BARGE diesel | 0 | 0 | 0.00 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MATERIAL TUG diesel | 0 | 0 | 0.00 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

**PRODUCTION**

| RECIP<500hp diesel | 0 | 0 | 0.00 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RECIP>500hp diesel | 0 | 0 | 0.00 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SUPPORT VESSEL diesel | 0 | 0 | 0.00 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TURBINE nat gas | 0 | 0 | 0.00 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RECIP 2 cycle lean nat gas | 0 | 0 | 0.00 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RECIP 4 cycle lean nat gas | 0 | 0 | 0.00 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RECIP 4 cycle rich nat gas | 1200 | 8751.6 | 205718.40 | 24 | 318 | 0.00 | 26.43 | 0.37 | 22.73 | 0.02 | 101.18 | 1.42 | 87.02 | 0.00 | 0.00 |
| BURNER nat gas | 0 | 0 | 0.00 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

**MISC.**

<table>
<thead>
<tr>
<th>BPD</th>
<th>SCF/hr</th>
<th>COUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
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<td>0.00</td>
</tr>
</tbody>
</table>

**DRILLING**

| OIL BURN | 0 | 0 | 0.00 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| GAS FLARE | 0 | 0 | 0.00 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

**1996 YEAR TOTAL**

| 1132.20 | 5.63 | 3.51 | 129.87 | 2.28 | 93.28 |

**EXEMPTION**

<p>| DISTANCE FROM LAND IN MILES | 34.0 |</p>
<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>
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### OPERATIONS

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<th>ACT. FUEL</th>
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<th>POUNDS PER HOUR</th>
<th>TONS PER YEAR</th>
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<td>Diesel Engines</td>
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<td>HR/D</td>
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<td>SCF/HR</td>
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<td>HR/D</td>
<td>DAYS</td>
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### MISCELLANEOUS

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### 1997 YEAR TOTAL

|        | 0.00 | 0.00 | 26.43 | 0.37 | 22.73 | 0.00 | 0.02 | 115.77 | 1.62 | 96.56 |

### EXEMPTION CALCULATION

| DISTANCE FROM LAND IN MILES | 34.0 | 1132.20 | 1132.20 | 1132.20 | 1132.20 | 36106.26 |

**BEST AVAILABLE COPY**
### AIR EMISSION CALCULATIONS

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<th>WELL</th>
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<td>A &amp; #5Caisson</td>
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**BEST AVAILABLE COPY**