

S-2049
OCS-G-5627

In Reply Refer To: FO-2-1

November 30, 1987

Amoco Production Company
Attention: Mr. K. A. Fitch
Post Office Box 50879
New Orleans, Louisiana 70150

Gentlemen:

Reference is made to your Supplemental Plan of Exploration received November 24, 1987, for Lease OCS-G 5627, Block 247, South Timbalier Area. This plan includes the activities proposed for Well D.

In accordance with 30 CFR 250.34, revised December 13, 1979, and our letter dated January 29, 1979, this plan is hereby determined to be complete and is now being considered for approval.

Your plan control number is S-2049 and should be referenced in your communication and correspondence concerning this plan.

Sincerely yours,

(Orig. Sgd.) A. Donald Giroir

J D. J. Bourgeois
Regional Supervisor
Field Operations

bcc: Lease OCS-G 5627 (OPS-3-2) (FILE ROOM)
OPS-3-4 w/Public Info. Copy of the plan (PUBLIC RECORDS)

MJTolbert:cck:11/25/87:poecom

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R. A. Fitch
Division Production
Manager

Amoco Production Company

New Orleans Region
Amoco Building
Post Office Box 50879
New Orleans, Louisiana 70150
Offshore

November 18, 1987

File: GAU-LF



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

Attention: Regional Supervisor

Supplement to Plan of Exploration
South Timbalier Block 247
OCS-G-5627
Offshore, Louisiana

In accordance with 30 CFR 250.34-1, Exploration Plan, revised September 14, 1979, and letter dated January 29, 1979, attached please find nine copies of Amoco Production Company's Supplement to the Plan of Exploration for South Timbalier Block 247, OCS-G-5627, Offshore Louisiana. This supplement adds one well.

Amoco respectfully requests your earliest favorable attention as drilling is scheduled to commence by December 1, 1987. Should further information be desired, please contact Harty Van of this office at telephone 504/586-6567.

Yours sincerely,

R. A. Fitch

HCV

Attachments

BEST AVAILABLE COPY

SUPPLEMENT TO PLAN OF EXPLORATION

SOUTH TIMBALIER BLOCK 247

OCS-G-5627

OFFSHORE, LOUISIANA

AMOCO PRODUCTION COMPANY
NEW ORLEANS, LOUISIANA

Harty C. Van, Jr.
504/586-6567
Petroleum Engineer Associate
November 18, 1987

COASTAL ZONE MANAGEMENT

CONSISTENCY CERTIFICATION

SUPPLEMENT TO PLAN OF EXPLORATION

Type of Plan

SOUTH TIMBALIER 247

Area and Block

OCS-G-5627

Lease Number

The proposed activities described in detail in this Plan comply with Louisiana's approved Coastal Management Program and will be conducted in a manner consistent with such Program.

Amoco Production Company

Lessee or Operator

R. A. Fitch
mf

R. A. Fitch

Certifying Official

November 18, 1987

Date

PUBLIC INFORMATION COPY

250.34-1 SUPPLEMENT TO PLAN OF EXPLORATION

November 18, 1987

A BRIEF DESCRIPTION OF THE PROPOSED TYPE AND SEQUENCE OF EXPLORATION ACTIVITIES TO BE UNDERTAKEN TOGETHER WITH A TENTATIVE TIMETABLE FOR THEIR PERFORMANCE INCLUDING PLAN COMMENCEMENT DATE, SEQUENCE EACH WELL IS TO BE DRILLED, TIME FRAME (DAYS) TO COMPLETE EACH WELL, AND TOTAL TIME TO COMPLETE THE PROPOSED PROJECT.

Amoco Production Company, (50%) and Arco (50%), acquired South Timbalier 247, OCS-G-5627, in Lease Sale No. 72, May, 1983, for \$4.4 MM. Amoco has been designated operator of the block.

The block is located in 200-230 feet of water approximately 50 miles offshore and south of the Terrebonne Parish, Louisiana shoreline. (See Attachment No. 1, Revised Location Map).

Amoco's Supplement to the Plan of Exploration adds one well. The well will be drilled with a jack-up rig. The proposed location of the well is as follows:

D. Surface: 6,050' FWL & 1,000' FSL

Drilling of the well will commence on December 1, 1987, with drilling to last about 70 days.

A DESCRIPTION OF THE DRILLING VESSEL(S), OR OTHER INSTALLATION(S) OR DEVICE(S) TO BE PERMANENTLY OR TEMPORARILY ATTACHED TO THE SEABED INDICATING THE IMPORTANT FEATURES THEREOF WITH SPECIAL ATTENTION TO SAFETY FEATURES AND POLLUTION PREVENTION AND CONTROL FEATURES INCLUDING OIL SPILL CONTAINMENT AND CLEANUP PLANS.

The actual rig to be used has not yet been decided; however, considering the water depth in the area is approximately 200 feet, it will probably be the Odeco Spartan or a similar type jack-up rig. The rig is equipped with all safety and pollution-prevention equipment required by the OCS Orders. See Attachment No. 3 for rig details.

All operations are covered by Amoco's Oil Spill Contingency Plan previously approved by the MMS on February 20, 1987.

Please reference Attachment No. 4 "Air Quality" for specific data on air emission. (Previously forwarded).

GEOLOGICAL AND GEOPHYSICAL SURVEY RESULTS IDENTIFYING GEOLOGICAL HAZARDS AND/OR SUSPECTED ARCHAEOLOGICAL ANOMALIES RELATIVE TO PROPOSED WELL(S), A MAP IDENTIFYING ANY SUSPECTED ARCHAEOLOGICAL ANOMALIES RELATIVE TO PROPOSED WELL(S) WHERE AN ARCHAEOLOGICAL SURVEY IS REQUIRED, AND A DESCRIPTION OF SURVEY EQUIPMENT UTILIZED.

The attached Revised Shallow Hazard Report (Attachment No. 5) confirms that the proposed well location is free of surface faults, seafloor anomalies, and shallow gas accumulations.

In accordance with the lease agreement, an archaeological survey was not required nor performed. The entire Multi-Sensor Engineering Survey in 3 copies was previously forwarded.

In accordance with NTL 83-3, par. II.A.5, copies of the high-resolution survey data from the two lines closest to the proposed well will be forwarded directly to the New Orleans MMS Region.

A LOCATION MAP OF THE LEASE BLOCK(S) RELATIVE TO THE SHORELINE, INCLUDING A DESCRIPTION OF ONSHORE SUPPORT BASE FACILITIES, A LOCATION MAP SHOWING EACH PROPOSED WELL, INCLUDING SURFACE AND PROJECTED BOTTOM-HOLE LOCATION, WATER DEPTH (BATHYMETRY), PROPOSED TRUE VERTICAL AND MEASURED DEPTH OF EACH WELL.

Please reference Attachment No. 1, Revised Location Map. This map shows the relationship of South Timbalier Block 247, to the shoreline as well as the proposed surface location of the well.

Operations will be conducted out of Amoco's base facility at Fourchon, Louisiana located 6 miles southwest of Leesville, La. The facility is equipped with both a heliport and boat handling facilities.

CURRENT STRUCTURE MAPS AND, AS APPROPRIATE, SCHEMATIC CROSS SECTIONS SHOWING EXPECTED DEPTH OR MARKER FORMATIONS.

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.

Attachment No. 8a is a Structure Map demonstrating structural relationships.

Attachment No. 10a is a Schematic Cross Section showing the geologic setting of the prospect and depicts structural relationships as determined by interpretation of proprietary data.

A BRIEF DESCRIPTION OF PROCEDURES, PERSONNEL, AND EQUIPMENT USED IN YOUR OIL SPILL CONTINGENCY PLAN THAT ARE TO BE USED FOR PREVENTING, REPORTING, AND CLEANING UP A POLLUTION SPILL, INCLUDING EQUIPMENT LOCATION AND TRAVEL AND DEPLOYMENT TIME.

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 equipment available and to train personnel of member companies in its proper use.

Existing oil spill cleanup equipment with beach protection and bird-cleaning stations can be on hand within 12 hours in the event of a spill. This equipment is maintained on standby and in a ready state at locations such as Panama City, Florida; Theodore, Alabama; Venice, Louisiana; Grand Isle, Louisiana; Houma, Louisiana; Intracoastal City, Louisiana; Cameron, Louisiana; Galveston (Texas City), Texas; and Port Aransas (Fulton), Texas.

All applicable safety and pollution standards of the MMS, USCG, OSHA, and the EPA will be complied with. 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.

A DETAILED LIST OF MUD COMPONENTS AND ADDITIVES, INCLUDING THE COMMON OR CHEMICAL TRADE NAME OF EACH.

Components of the drilling mud may include any or all of the following: barite, gel, caustic, soda, chrome lignosulfonate, lignite, sapp, aluminum stearate, soda ash, phosphate, gilsonite, surfactant (methanol), Quick Seal, Spotty and CMC. No bactericides containing halogenated phenols will be used in the mud system. Any drilling mud, drill cuttings, sand, or other solids will not be disposed of into the Gulf unless all of the free oil has been removed.

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ODECO

E, F

A, B

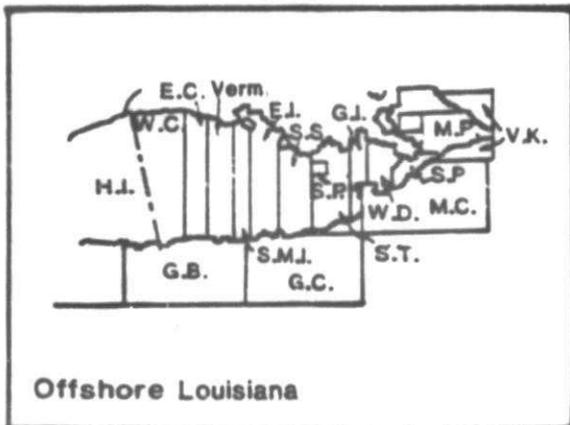
C

D

G

SCALE: 1"=2000'

VICINITY



Offshore Louisiana

ATTACHMENT #1

Amoco Production Company
NEW ORLEANS REGION

BLOCK: SOUTH TIMBALIER 247
OCS-G-5627
LOCATION MAP

GENERAL DESCRIPTION AND EQUIPMENT LISTA. GENERAL DESCRIPTION

The Ocean Spartan (ex Salenergy V) is a Friede & Goldman L-780 design independent leg cantilever jackup drilling unit outfitted for operating in water depths from 17 ft. to 250 ft. and for drilling to a nominal well depth of 20,000 ft. below the rotary.

PRINCIPAL CHARACTERISTICS AND DIMENSIONS:

Length Overall	180' - 0"
Breadth Overall	175' - 0"
Depth of Hull	25' - 0"
Length of Legs including Spud Cans	351' - 6"
Depth of Cans	15' - 0"
Diameter of Cans	39' - 10"
Normal Projection of Legs below Hull during tow	4' - 6"
Minimum Projection of Legs below Hull for Shallow Water Moves	0' - 0"
Center of Fwd Leg to Centerline of Aft Legs	115' - 0"
Center to Center of Aft Legs	120' - 0"
Maximum draught, moulded	15' - 0"

<u>Drill Floor:</u>	Length	48' - 0"
	Breadth	46' - 0"
	Height above Main Deck	26' - 0"
	Derrick	30' x 30'
	Travel Port and Starboard	10' P/10'S

<u>Cantilever Substructure:</u>	Length Center of Well over Stern max	40' - 0"
	Center to Center of Cantilever Beams	50' - 0"
	Height of Substructure	20' - 0"
	Height Pipe Rack Deck	12' - 0"
	Length Pipe Rack Deck	55' - 0"
	Width Pipe Rack Deck	50' - 0"
	Travel Fore and Aft	70' - 0"

OPERATING CAPACITIES:

Diesel Fuel	2,000 BBLs
Drill Water	4,800 BBLs
Potable Water	1,020 BBLs
Lube Oil	28 BBLs
Ballast or Preload	4,500 S Tons
Bulk Mud and/or Cement	9,670 cu ft

Sack Stores	3,000 Sacks
Active & Reserve Mud Pits	1,650 BBLS
Slugging Pit	100 BBLS
Return Pits & Sand Trap	235 BBLS
Pipe Rack on cantilevers	2,200 sq ft
Main Deck Storage Area	7,500 sq ft

QUARTERS: Air conditioned accommodations for 76 men including galley and messroom (2 each), change room (2 each), recreation room, offices and radio room.

HELIPORT: Cantilevered polygon shaped heliport at forward end of rig with 62 ft. diameter landing circle rated for a Sikorsky S-61 helicopter.

CLASSIFICATION: ABS Maltese Cross A 1 self elevating Drilling Unit.

The Drilling Unit has also been certified in accordance with the IMCO Code for the construction and equipment of Mobile Offshore Drilling Units (MODU Code).

3. DRILL FLOOR EQUIPMENT

1. Draw Works - Mid-Continent U-1220 EB, double drum, with Elmagco 6032 auxiliary brake. / Drawworks driven by two (2) GE 752AR 1,000 HP DC electric motors and fitted with lebus drum for 1-3/8" wireline, Crown-O-Matic and sandravel with capacity of 20,300' of 3/16" line.
2. Derrick - DRECO 147' x 30' x 30', 1,000,000 lbs. static hook load capacity with 12 lines strung to the block, 100 MPH wind capacity with pipe racked.
3. Crown Block - DRECO 583 ton rated capacity with 7 - 50" sheaves, grooved for 1-3/8" wire line.
4. Traveling Block - Oilwell No. A-500 with 6 - 60" sheaves rated at 500 tons.
5. Hook - Web Wilson 500 ton "Hydra Hook" with Return-A-Matic.
6. Swivel - Oilwell PC-500 (500 ton).
7. Deadline Anchor - National type "EB" for 1-3/8" wireline.
8. Rotary - 37-1/2" Oilwell rotary table driven by a 900 HP GE 752AF DC motor through an Oilwell RT-2010D two (2) speed transmission.

*based on
201 pp. dr. log*

9. One (1) Varco MPCH Pin Drive Hinged Master Casing Bushing for Oilwell 37-1/2" rotary table. One (1) Varco split extended API Insert Bowl #3 and one (1) Varco Insert Bowl #1 for 13-3/8" and 11-3/4" casing.
10. One (1) Varco 27 HDP roller kelly bushing for 5-1/4" API hex kelly.
11. One (1) 5-1/4" hex x 43' long kelly with 6-5/8" API LH Reg box up x API NC 50 pin down connections.
12. One (1) upper and two (2) lower kelly valves, Hydril "Kellyguard" ball type, 15,000 psi test, 10,000 psi WP.
13. Two (2) kelly saver subs with rubber protectors.
14. One (1) Varco Model 6500 kelly spinner/power sub with 6-5/8" API Reg. LH pin and box connections.
15. One (1) Mathey "Surveyor" wireline measuring unit fitted with 15,000' of .092" wireline. (Maximum capacity 25,000' of .092" wireline.)
16. One (1) Totco "Go-Devil" double recorder non-directional drift indicator with 0-80° clock.
17. Standard drill floor instrumentation consisting of driller's console with weight indicator and related readouts for mud pumps, mud pit volumes, mud flow, mud gain/loss, rotary and tong torque and pressures.

Drilling recorders include:

- a) One (1) Totco drilling recorder to record ROP, weight, pump pressure, rotary torque, rotary RPM and pump strokes.
- b) One (1) Totco Pitometer Unit No. L-5 to record total volume of four mud pits and one trip tank.
- c) One (1) Totco Trip Flow Alert system with digital pump stroke counter, mud flow sensor, alarm horn and recorder.

C. MUD CIRCULATING SYSTEM

1. Two (2) Gardner-Denver PZ-11 triple mud pumps, 7" maximum bore x 11" stroke, each driven by two (2) GE 752AR, 900 HP DC motors, total 1,800 HP each pump. Pumps supercharged by 6" x 8" x 10" centrifugal pumps with 50 HP - AC motors. Each pump fitted with Hydril K-20-5000 discharge pulsation dampener and Cameron 3" Type B reset safety valve.

2. Two (2) Harrisburg 6 x 8 x 13 centrifugal mud mix/transfer pumps each driven by a 100 hp explosion proof AC motor.
3. One (1) Brandt Dual Tandem Screen separator. 1,400 GPM capacity with oblong 20/40 mesh screen combination based on 9# mud and 750 GPM capacity with oblong 40/80 mesh screen combination based on 16# mud.
4. One (1) Demco Model 123 vertical desander consisting of three (3) 12" cones with rated capacity of 1,200 to 1,350 GPM (1,335 GPM with 50 psi differential).
5. One (1) Demco Model 412-H desilter consisting of twelve (12) 4" cones with rated capacity of 960-1,080 GPM (1,080 GPM with 50 psi differential).
6. One (1) Brandt single mud cleaner (silt separator) 400 GPM fed from desilter underflow.
7. Three (3) Harrisburg 6 x 8 x 13 centrifugal pumps for desander, desilter and degasser service each driven by a 100 hp explosion proof AC motor.
8. One (1) Houston Systems mud/gas separator, atmospheric type, 30" diameter with 8" diameter mud bottom outlet and 6" diameter gas top outlet.
9. One (1) Wellco Model 5200 vacuum type degasser.
10. Liquid mud pits consisting of:

4 - Active/Reserve mud pits	1,650 BBLs
1 - Slugging pit	100 BBLs
2 - Return pits and sandtrap	235 BBLs
11. Four (4) Brandt mud agitators Model MA25/one (1) for each of the four active and reserve mud pits.
12. Eight (8) Demco Fig. 33-LP 3" low pressure mud guns.
13. Three (3) Demco Fig. 612-B mud hoppers. (Note - One (1) mud hopper and pit can be isolated for use with oil base mud.)
14. Eight (8) Halliburton pneumatic bulk storage tanks each equipped with high level indicator, 890 cu ft capacity each. Three (3) Halliburton pneumatic bulk cement storage tanks, 850 cu ft capacity each.
15. One (1) Halliburton mud surge tank, non-pressurized, 70 cu ft capacity.

16. One (1) trip tank, 50 BBL capacity with one (1) 3 x 4 centrifugal pump powered by 20 hp AC motor.
17. One (1) standpipe manifold, 5" x 5,000 psi WP/10,000 psi test) with dual standpipes.
18. Two (2) rotary drilling hoses 3-1/2" ID x 60' long, 5,000 psi WP.

D. WELL CONTROL EQUIPMENT

1. Blowout preventers consisting of:
 - a) One (1) Hydril 20" x 2,000 psi WP Type "MSP" annular preventer with 20" API 2,000 psi studded top x 20" API 2,000 psi flanged bottom.
 - b) One (1) Hydril 13-5/8" x 5,000 psi WP Type "GL" annular preventer. 13-5/8" x 5M studded top x 13-5/8" x 10M flanged bottom connections.
 - c) Two (2) Cameron 13-5/8" x 10,000 psi WP Type "U" single ram preventers with 13-5/8" x 10M BX-159 flanges top and bottom.
 - d) One (1) Cameron 13-5/8" x 10,000 psi WP Type "U" double ram preventer with 13-5/8" x 10M BX-159 flanges top and bottom.
 - e) Bell nipples for 13-5/8" and 20" BOP stacks.
(All preventers trimmed for H₂S service).
2. One (1) set BOP stack kill and choke line valves consisting of manual valves, check valves and remote operated valves and required valve spools.
3. One (1) Ross Hill BOP control system consisting of one (1) power unit Model 180-1E-20-2AG with 225 gallon accumulator capacity (12-15 gal accumulators), one (1) Master control panel Model MP6A-SS and one (1) remote mini panel Model RP6A2R.
4. One (1) 21-1/4" diverter system complete with 20" diverter spool with dual 8" OD flanged outlets, remote activated valves, control panel and dual overboard lines.
5. One (1) 3-1/16" 10,000 psi WP choke manifold with two (2) Swaco remote adjustable chokes and one (1) Cameron 2", Type "H2" manual adjustable choke. (Suitable for H₂S service).
6. One (1) each kill and choke line droop hoses, 3" ID x 10,000 psi WP x 40' long with stainless steel armoring and 3" Weco Fig. 1502 unions. One (1) kill line droop hose, 2" ID x 10,000 psi WP x 40' long.

7. One (1) BOP test pump, 10,000 psi.

E. DRILL STRING AND HANDLING TOOLS

1. Drill pipe consisting of:
10,600' - 5" OD, 19.5#/ft Grade E; Range 2 drill pipe with 6-3/8" OD x 3-1/2" ID, 18° taper NC 50 tool joints with fine particle hardbanding.
4,400' - 5" OD, 19.5#/ft Grade G105, Range 2 drill pipe with 6-3/8" OD x 3-1/2" ID, 18° taper NC50 tool joints.
2. Drill collars consisting of:
12 - 8" OD x 2-13/16" ID x 31' long with 6-5/8" API Reg. box up x pin down connections.
12 - 7" OD x 2-3/4" ID x 31' long with 5-1/2" H-90 box up x pin down connections.
12 - 6-1/2" OD x 2-15/16" ID x 31' long with 4-1/2" extra hole box up x pin down connections.
3. Bit subs consisting of:
2 - 8" OD with 6-5/8" API Reg box up x box down, bored for float.
2 - 6-1/2" OD with API NC50 box up x 4-1/2" API Reg box down, bored for float.
4. Crossover subs for Contractor furnished drill pipe, drill collars and other contractor furnished down hole tools.
5. One (1) Weatherford Lamb Spinnerhawk, Model 13000-J-29 spinning wrench, air driven.
6. Two (2) BJ Type GG center latch elevators for Contractor furnished drill pipe.
7. Two (2) BJ Type "DB" rotary tongs with 3-1/2" thru 14-3/8" diameter latch jaws.
8. Two (2) Varco 5" Type SDXL rotary slips.
9. Two (2) Varco 6-3/4" x 8-1/4" drill collar slips Type DCS-L.
10. One (1) Varco type DCS-R multi-segment drill collar slips for 5-1/2" - 7" OD drill collars.
11. One (1) each Varco Type MP-R safety clamps for Contractor furnished 8" and 6-1/2" drill collars.

12. Six (6) each lift subs for Contractor furnished 8" and 6-1/2" drill collars.
13. One (1) set Baash Ross elevator links, 2-3/4" diameter x 132" long, 350 ton.
14. One (1) Gray #62030 float valve (inside BOP) with API NC 50 thread connection.
15. One (1) King Model 4-SC circulating head with API NC50 pin lower connection and 4" NPT female upper connection with wireline stripper.
16. One (1) each Web Wilson "Champion" Type C100 center latch elevator for 8" and 6-1/2" drill collars, 100 ton capacity.
17. One (1) Drilco Type I "Ezy-Torq" hydraulic cathead.
18. One (1) mud saver bucket.
19. Bit breaker for standard 26", 17-1/2", 12-1/4", 9-7/8" and 8-1/2" three cone bits.
20. Casing protectors (latch on type) for Contractor's 5" drill pipe for use in surface casing.
21. Fishing tools consisting of:
 - a) One (1) rotary taper tap 6-3/8" OD x 36" long tapered from 2-1/2" to 4-1/2" with API NC 50 box up connection.
 - b) One (1) each Bowen 9-5/8" OD and 8-1/8" OD, FS Series 150 releasing and circulating overshots complete with grapples, packers, guides and extension subs to catch Contractor furnished drill pipe and collars.
22. One (1) BJ Spintorc hydraulic pipe spinner and torque wrench.

F. AUXILIARY EQUIPMENT

1. Rig power provided by four (4) Caterpillar Model D399 turbocharged after cooled diesel engines each driving one (1) GE 930 kw, 600 volt AC generator. Diesel engines cooled by four (4) remote mounted radiators.
2. General Electric SCR system and DC controls.
3. One (1) Caterpillar Model 3412 emergency generator set, 350 kw 480 VAC, 60 hz. Battery electric start, radiator cooled.

4. Pedestal cranes consisting of:
 - One (1) Link Belt Speeder Seamaster crane, Model ABS-238 with 100' boom.
 - One (1) Link Belt Speeder Seamaster crane, MODEL ABS-218 with 100' boom.
5. One (1) lot of slings and bridles for loading and offloading drilling unit.
6. Initial set of mooring lines and hoses for use with supply vessels. (Operator to provide replacement lines and hoses).
7. One (1) Gardner Denver low pressure air compressor unit, 300 SCFM at 40 psi with air dryer.
8. Two (2) Gardner Denver Model ESM Electra Screw, high pressure air compressor units, 425 SCFM each at 125 psi. One (1) refrigerated air dryer.
9. One (1) Gardner Denver Model ADS two stage air compressor driven by Lister Model ST 2A diesel engine for emergency "cold start" service.
10. One (1) Demco Model WT-3750 waste treatment plant, 125 men unit/3,750 GPD processing.
11. One (1) Oil Water Separator system.
12. Normal welding equipment and supplies including 400 amp DC welding machine.
13. Two (2) Brandt Model 8150, 15,000 CFM bug blowers.
14. Communication equipment consisting of:
 - 1 - VHF-FM radio telephone.
 - 1 - Harris RF230M SSB Synthesized Marine Transceiver with 1kw linear amplifier.
 - 1 - Southern Avionics Corp. 100 watt radio beacon transmitter.
 - 1 - Gal-Tronics paging system for communication onboard rig.
 - 4 - Portable VHF handsets.
15. All safety equipment required to comply with USCG, SOLAS and ABS requirements including:
 - Two (2) 44-man fully enclosed Watercraft Survival Craft
 - Individual life preservers
 - Fire extinguishers
 - Station bill

- General alarms
- Identification signs
- Equipment guards
- Pollution pans
- Inflatable life rafts
- Imperial exposure suits for 150% of drilling unit personnel capacity

6. THIRD PARTY EQUIPMENT

1. One (1) Halliburton HT-400 skid mounted cement unit; 10,000 psi WP.

(Note: Operator to pay for all service and repairs to Halliburton unit and pay additional costs if other than Halliburton services are utilized.)

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Amoco Production Company

New Orleans Region
Amoco Building
Post Office Box 50870
New Orleans, Louisiana 70160

November 20, 1987

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

Attn: Regional Supervisor

Dear Sir:

Subject: Shallow Hazard Report
Supplement to Plan of Exploration
South Timbalier Blk 247, OCS-G-5627

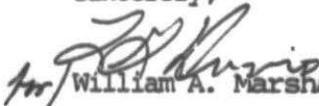
A multi-sensor, high-resolution, geophysical survey was conducted over the entire block. The results indicate a smooth seafloor, no surface faults, seafloor anomalies, or shallow gas accumulations at the following surface locations:

D. 1000' FSL, 6050' FWL

Conventional CDP and "bright-spot" seismic data, with associated velocity analyses, are free from anomalies at these locations.

Geologic control is available from the OCS-G-1283 No. 1, previously drilled in BLK 247. The same geologic sequence is expected at the above proposed location.

Sincerely,


for William A. Marshall

Division Geophysical Manager

ATTACHMENT NO. 5