

DRILLING CONTRACT

RBS-8D SEMISUBMERSIBLE DRILLING UNIT

VASTAR RESOURCES, INC.

AND

R&B FALCON DRILLING CO.

CONTRACT NO. 980249

DATE: DECEMBER 9, 1998

R.S.

4112
Exhibit No. _____
Worldwide Court Reporters, Inc.

d.L.

CONFIDENTIAL

BP-HZN-MBI00021461

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DRILLING CONTRACT

THIS CONTRACT ("CONTRACT") is made and entered into this 9th day of December, 1998, by and between Vastar Resources, Inc., a Delaware Corporation, hereinafter referred to as "COMPANY" and R&B Falcon Drilling Co., ("CONTRACTOR"), and shall be effective upon execution by both COMPANY and CONTRACTOR (the date when so effective, shall be referred to herein as the ("Effective Date")). COMPANY and CONTRACTOR are sometimes herein individually referred to as a "Party" and collectively referred to as the "Parties."

RECITALS

Whereas CONTRACTOR shall cause to be built, a semisubmersible drilling unit, "Drilling Unit". Whereas COMPANY desires to engage the services of CONTRACTOR, its Drilling Unit, and its equipment and all necessary crews for drilling, completing, testing, and remedial operations and support operations on a well or wells in the federal waters of the Gulf of Mexico, hereinafter referred to as "Operations" or "Work".

Whereas this CONTRACT and the attached exhibits establishes the terms and conditions contained in this document entitled "DRILLING CONTRACT" and the attached exhibits:

- Exhibit A: Dayrates
- Exhibit B-1: Drilling Unit Specifications
- Exhibit B-2: Material Equipment List
- Exhibit B-3: Consumable Material and Equipment List
- Exhibit C: Insurance Requirements
- Exhibit D: Safety, Health, and Environmental Management System
- Exhibit E: Termination Payment Schedules
- Exhibit F-1: Rig Manning
- Exhibit F-2: Cost of Additional Personnel
- Exhibit G: Vessel/Equipment Performance/Acceptance Test
- Exhibit H: Project Execution Plan

NOW, THEREFORE, COMPANY and CONTRACTOR, for and in consideration of the mutual covenants and agreements contained herein and good and valuable consideration paid by COMPANY to CONTRACTOR, the receipt and sufficiency of which are acknowledged by CONTRACTOR, the Parties hereby agree as follows:

14.4 TECHNOLOGY

CONTRACTOR and COMPANY agree to explore the latest technologies, including riserless drilling, in an effort to incorporate same into the construction and operation of the Drilling Unit. CONTRACTOR shall make such technology available to COMPANY as soon as CONTRACTOR has the right to install and use such technology on its commercial drilling units, subject to any existing third party contracts as of the Commencement Date. Such installation shall be done pursuant to Article 5.

14.5 APPLICABLE LAWS

Subject to Article 2.3.4, CONTRACTOR represents that during the Contract Period, the Drilling Unit is outfitted, conformed, and equipped to meet all applicable laws, rules, requirements, and regulations promulgated by the U.S. Coast Guard, the U.S. Environmental Protection Agency, the United States of America Department of the Interior as well as any other agency, bureau, or department of the U.S. federal, territorial possession, state, municipal, or local governments, any political subdivisions thereof, having jurisdiction over the operations in U. S. federal waters.

14.6 SAFETY OF PORT

COMPANY does not and shall not be deemed to warrant the safety of any port, place, berth, dock, anchorage, location, or submarine line and shall be under no liability in respect thereof, except as specifically provided for under Article 31.

14.7 OPERATING AREA

The Drilling Unit shall be capable of operating year around in the federal waters of the U. S. Gulf of Mexico. Additionally, the Drilling Unit will be designed to allow for operations in other areas of U. S. federal waters, offshore West Africa and the United Kingdom and other areas of the world, all subject to modifications and outfitting required by the controlling jurisdictions of each different operating area and to the operating limits set forth in Exhibit "G".

ARTICLE 15

PERFORMANCE OF DRILLING OPERATIONS

15.1 OPERATIONS OF DRILLING UNIT

CONTRACTOR shall be solely responsible for the operation of the Drilling Unit, including, without limitation, supervising moving operations, and the positioning of the Drilling Unit on drilling locations as required by COMPANY, as well as such operations on board the Drilling Unit as may be necessary or desirable for the safety of the Drilling Unit.

15.2 PREVENTION OF FIRE AND BLOWOUTS

CONTRACTOR shall maintain well control equipment in accordance with good oilfield practices at all times and shall use all reasonable means to control and prevent fire and blowouts and to protect the hole and all other property of the COMPANY. CONTRACTOR shall use the blowout prevention equipment specified in Exhibit B hereof on all strings of casing unless otherwise directed by COMPANY. CONTRACTOR shall pressure test the blowout prevention

devices as often as instructed by COMPANY, usually once every seven (7) days, and shall function test the blowout prevention devices by opening and closing to assure operating condition at each trip for a bit change. CONTRACTOR shall record the results of all the tests on the Daily Drilling Report Form defined in Section 19.1 hereof. CONTRACTOR shall use kelly sub protectors and drill pipe protectors. In any event, CONTRACTOR, at a minimum, shall use, test, and maintain blowout prevention equipment in accordance with all applicable governmental rules, regulations, and orders then in effect.

15.3 DEVIATION OF THE HOLE

CONTRACTOR shall use precaution in accordance with good oilfield practices in the Area of Operations, to drill a hole which will not deviate excessively from the limits specified by COMPANY. CONTRACTOR shall run angle and directional measuring devices acceptable to, and at the intervals directed by COMPANY. CONTRACTOR shall record the results of the deviation survey on the Daily Drilling Report Form.

15.4 DRILL PIPE MEASUREMENT

CONTRACTOR shall measure the total length of drill pipe in service with a steel tape before setting casing or liner, before logging, after reaching final depth, and whenever requested by COMPANY and shall promptly enter all the measurements on the Daily Drilling Report Form.

15.5 CASING PROGRAM

The casing program shall be as specified by COMPANY.

15.6 MUD PROGRAM

CONTRACTOR shall use all reasonable care to make and maintain drilling mud having weight, viscosity, water loss, and other characteristics to satisfy the requirements as specified by COMPANY. CONTRACTOR shall exercise due diligence to prevent the well from blowing out, and to enable the efficient drilling, logging, and testing of all formations without caving or formation contamination. While drilling, CONTRACTOR shall test drilling mud for weight, viscosity, water loss, and other necessary characteristics as instructed by COMPANY and shall record the results of the tests and the material volume usage on the Daily Drilling Report Form.

15.7 COMPLETION OR ABANDONMENT OF WELLS

CONTRACTOR shall perform all work necessary to tube, equip, and complete or abandon each well in the manner specified by COMPANY.

15.8 SAMPLES

CONTRACTOR shall save and preserve for COMPANY samples of formations penetrated, and properly prepare and label COMPANY'S containers. COMPANY shall designate the sampling frequency.

15.9 CORING

CONTRACTOR shall core at the depths which COMPANY shall specify and shall deliver all cores in COMPANY'S containers, properly labeled, to COMPANY and shall not allow any third

EXHIBIT B-2
MATERIAL EQUIPMENT LIST

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- A4 Operational Capabilities
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- A6 Environmental Limits
- A7 Mooring System
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- A10 Helicopter Landing Deck
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- E1 Lower Riser Diverter Assembly
- E2 Primary BOP Stack
- E3 Primary Lower Marine Riser Package
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- E5 Secondary Lower Marine Riser Package
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- E8 Diverter BOP
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- E10 BOP Control System
- E11 Subsea Control System
- E12 Acoustic Emergency BOP Control System
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- E14 Choke Manifold
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- H1 Drilling Instrumentation at Driller's Position
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SECTION M - POLLUTION PREVENTION EQUIPMENT

- M1 Sewage Treatment
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SECTION N - THIRD PARTY EQUIPMENT (SPACE PROVIDED)

A handwritten signature in black ink, appearing to be 'DM' with a stylized flourish underneath.

Stroke	inch: 20
Connection type	: 6 5/8 Reg
Quantity	no.: 1
Make/Type	: TBA
OD body	inch: 6.25
Min. ID	inch: 2.25
Stroke	inch: 20
Connection type	: 4 IF

D.3.6 SAFETY JOINTS Company Supplied

D.3.7 JUNK BASKETS (REVERSE CIRC.) Company Supplied

D.3.8 JUNK SUBS Company Supplied

Quantity	no.: 1
Make/Type	: TBA
For hole size	inch: 17.5
Boot OD	inch: 12.875
Connection type	: 7 5/8 Reg
Quantity	no.: 1
Make/Type	TBA
For hole size	inch: 12.25
Boot OD	inch: 9.625
Connection type	: 6 5/8 Reg
Quantity	no.: 1
Make/Type	: TBA
For hole size	inch: 8.5
Boot OD	inch: 6.625
Connection type	: 4 1/2 Reg

D.3.9 FLAT BOTTOM JUNK MILL Company Supplied

D.3.10 MAGNET FISHING TOOL

Quantity	no.: 1
Make/Type	: TBA/ Flush guide
OD body	inch: 16
Hole size	inch: 17.5
Connection type	: 6 5/8 reg

D.3.11 TAPER TAPS Company Supplied

D.3.12 DIE COLLARS Company Supplied

E. WELL CONTROL/SUBSEA EQUIPMENT

E.1 LOWER RISER DIVERter ASSY N/A

E.2 PRIMARY BOP STACK (from bottom to top)

Stack complete with:	
- guide frame	yes/no: YES
- pick up attachment	yes/no: YES
- transport base	yes/no: YES
Size (bore)	inch: 18.75
Working pressure	psi: 15000
H2S service	yes/no: YES

E.2.1 ALTERNATE HYDRAULIC CONNECT N/A

E.2.2 HYDRAULIC WELLHEAD CONNECTOR

Size inch: 18-3/4"
Make/Type : Vetco SD H-4
Working pressure psi: 15000
Hot tap for underwater intervention RO' yes/no: YES
Spare connector same type yes/no: NO
Hydrate seal yes/no: Yes (1 oring & 1 Lip seal Option as STD.)
Glycol Injection (ROV) yes/no: yes (4 x 1" Npt @ 90 deg increments)
Pilot Operated check Valve, close function Yes/No: Yes

E.2.3 RAM TYPE PREVENTERS

Preventers:
Quantity no.: 5
Bore size inch: 18.3/4"
Working Pressure psi: 15000
Make : CAMERON or equivalent
Model : TYPE T1
Type (single/double) : Double x2 , Single x 1
Stack Configuration : A1, A2, CL, SSCSR BSR,VBR,VBR,LFPR,CH

Ram locks yes/no: YES
Preventer connection type - top : CX18 (BX-164 Option Available)
Preventer connection type - bottom : CX18 (BX-164 Option Available)
Side outlets yes/no: YES
Size inch: 3.1/16
Connection type : No. 6 CAMERON CLAMP AX GROOVE
Super/Shear rams: Less than or equal to 13-5/8"
Quantity no.: 1 set
Blind/Shear rams:
Quantity no.: 1 set
Variable rams:
Quantity no.: 1 set
Size range (max/min) inch/inch: Customer to advise
Quantity no.: 1 set
Size range (max/min) inch-inch: Customer to advise
Pipe rams:
Quantity no.: 1 set
Size inch: Customer to advise

E.2.4 STACK CONFIGURATION (Blind/Shear/Pipe/Variable)

Upper Shear r: Cavity 5 SSCSR (Less than or equal to 13-5/8")
Lower shear r: Cavity 4 : BSR
Middle Upper Cavity 3 : VBR
Middle Lower Cavity 2 : VBR
Lower rams Cavity 1 : LFPR
Position of side outlets - kill
Upper : Below BSR (Cavity #4)
Lower : Below LFPR (Cavity #1)

Position of side outlets - choke

LMRP	Below upper Annular (A1)
Stack	Below Top VBR (Cavity #3)
Stack	: Below Bottom VBR (Cavity #2)

E.2.5 ANNULAR TYPE PREVENTER ON STACK

Size	inch: n/a
Working pressure	psi: n/a
Make/Type	: n/a

E.2.6 MANDREL

Make/Type	: Cameron 18-3/4 10 HC
Size	inch: 18.75

E.2.7 FAIL-SAFE HYDRAULIC VALVES (Kill and Choke)

Quantity on each side outlet	no.: 2
Size (ID)	inch: 42430
Make/Type	: Cameron MCS
Working pressure	psi: 15000
Solid block	yes/no: YES

E.2.8 SUBSEA ACCUMULATORS

(See also E.7.1 - Surface Accumulator Unit)

Quantity	no.: 17 (team to evaluate)
Useful capacity per accumulator (w/o piUS gallons)	13.1
Bottle working pressure	psi: 5000 (team to evaluate)

E.2.9 HYDRAULIC CONTROL POD/RECEPTACLES

Quantity	no.: 2
Redundancy	?: 100
Color Coded	yes/no: YES
Remote regulation of operating pressure for functions requiring lower operating pres:	yes/no: YES
Spare control pod	yes/no: NO
Deadman system	yes/no: YES
Pressure & temperature Sensor's LMRP	yes/no: YES

E.3 PRIMARY LOWER MARINE RISER PACKAGE (From Bottom To Top)

E.3.1 HYDRAULIC CONNECTOR

Make/Type	: Cameron 18-3/4-10 HC or equivalent
Size	inch: 18.75
Working pressure	psi: 10000
Hot tap for underwater intervention	yes/no: YES
Spare connector same type	yes/no: NO

E.3.2 ANNULAR TYPE PREVENTER (LMRP)

Size	inch: 18-3/4"
Qty.	no: 2
Working pressure	psi: 10000
Make/Type (2*70.5=141" Total Height)	: CAMERON TYPE DL

E.3.3 FLEX JOINT

Make/Type : Oil States 18-3/4"
 Size inch: 21
 Max deflection degrees: 20 (10 from vertical)

E.3.4 RISER ADAPTER

Make/Type : Vetco HMF-class H
 Size inch: 21

E.3.5 CONNECTION LINES TO RISER

Type (rigid loops, coflexip, etc.) Make: COFLEXIP
 Size: 3-1/16
 WP: 15,000 psi
 Collapse Psi 12,710psi

E.3.6 RISER CENTRALIZER

Hydralift

E.4 ANNULAR GAS HANDLER

Make / Type Supplied by Company at later date. Hard piping and
 control functions to be supplied by Contractor
 Rating 1,500 psi
 Number Outlets 2
 Number Valves 4

E.5 SECONDARY LOWER MARINE RISER F N/A**E.6 PRIMARY MARINE RISER SYSTEM****E.6.1 MARINE RISER JOINTS**

To be designed for 10,000' wd
 Make/Model : Vetco or equivalent (HMF-class H)
 OD inch To be determined by final riser analysis
 ID inch To be determined by final riser analysis
 Wall thickness inch: To be determined by final riser analysis
 Average length of each joint ft: 90
 62,311 for 5k buoyancy, 54,424 for 3k buoyancy, 31,620
 Weight of one complete joint (in air) lbs: for 3/4" Slick, 36,900 1" slick
 Quantity no.: Sufficient for 8,000 ft. water depth
 Pipe material grade: API 5L Grade X80 Mod.
 Minimum yield strength psi: 80KSI
 Type riser connectors : HMF- class H
 Dogs no.: To be determined by final riser analysis

Pup joints:

Quantity no.: 1
 Length ft: 45.0'
 Quantity no.: 1
 Length ft: 37.5'
 Quantity no.: 1
 Length ft: 30.0'
 Quantity no.: 1
 Length ft: 22.5'

Quantity no.: 1
Length ft: 15'

E.6.2 TELESCOPIC JOINT

Make/Type : Vetco
Size (ID) inch: 19.25
Stroke ft: 65
Double Seals yes/no: YES
Working pressure psi 500
Spare telescoping joint yes/no: no
Location : N/A
Rotating support ring for riser tensioners type: Vetco SDC
Connection points no.: 6

E.6.3 KILL/CHOKE LINES

Quantity no.: 2
Outside diameter inch: 6.5
Inside diameter inch: 4.5
Working pressure psi: 15000
LMRP Isolation valves YES/NO YES. Fail Close

E.6.4 BOOSTER LINES (If Fitted)

Quantity no.: 1
Outside diameter inch: 4.5
Inside diameter inch: 3.83
Working pressure psi: 6000
LMRP Isolation valve YES/NO YES

E.6.5 HYDRAULIC SUPPLY LINES

Quantity no.: 1
Outside Diameter inch: 3.5
Inside Diameter inch: 2.62
Working pressure psi: 5000

E.6.6 UPPER BALL (FLEX) JOINT

Make/Type : Oilstates Diverter 3
Size inch: 21-1/4
Maximum deflection deg.: 30 (15 from vertical)
Spare upper ball (flex) joint yes/no: NO

E.6.7 BUOYANCY MODULES (If Fitted)

Make : To be determined by riser analysis
Quantity of buoyed riser joints no.: To be determined by riser analysis
OD of buoyed riser joints inch: To be determined by riser analysis
Length of each module ft: To be determined by riser analysis
Volume of each module ft3: To be determined by riser analysis
Buoyancy in seawater st/ft3: To be determined by riser analysis
Rated water depth ft: To be determined by riser analysis
Make : To be determined by riser analysis
Quantity of buoyed riser joints no.: To be determined by riser analysis
OD of buoyed riser joints inch: To be determined by riser analysis

Length of each module	ft: To be determined by riser analysis
Volume of each module	ft3: To be determined by riser analysis
Buoyancy in seawater	st/ft3: To be determined by riser analysis
Rated water depth	ft: To be determined by riser analysis

E.6.8 MARINE RISER SPIDER

Make/Type : VETCO / HYDRAULIC

E.6.9 Marine Riser Gimbal

Make/Type : VETCO

E.6.10 RISER HANDLING TOOLS

Tool, riser lifting	no.: 3
1000 ton Solid Body Elevators	no : 1 set (team to evaluate)
Type	: HMF- Class h
Torque Wrenches	: 2 - dual speed

E.6.11 RISER TEST TOOLS

Quantity	no.: 2
Type	: HMF- Class H Hydraulic Test Tool

E.6.12 INSTRUMENTED RISER JT : N/A

E.7 SECONDARY MARINE RISER : N/A

E.8 DIVERTER BOP

(For installation in fixed bell nipple)

Make/Type	: Hydril 60
Max Bore Size	inch: 21-1/4
Working pressure	psi: 500
Number of diverter outlets	no.: 2
Outlet OD	inch: 14
Insert packer size ID	inch: N/A CSO
Element type.	: Nitrile rubber
Running from diverter to	: Overboard , port/ starb./ Poorboy MGS

E.8.1 DIVERTER FLOWLINE

Quantity	no.: 1
I.D of flowline	inch: 16" Nomimal
Valve types	: Diverter Sleeve
Size	inch: 16
Working pressure	psi: 500
Control valve type (air/hydraulic/etc.)	: HYDRAULIC
Remote controlled from	location: DRILLERS WORKSTATION

E.8.2 DIVERTER CONTROL PANELS

Driller's panel	
Make	: CAMERON OR EQUIVALENT
Model	: MULTIPLEX
Location	: DRILLERS WORKSTATION
Locking/unclocking control	yes/no: YES

Remote panel	
Make	: CAMERON
Model	: MULTIPLEX
Location	: CONTROL ROOM
Locking/unlocking control	yes/no: YES

E.9 SUBSEA SUPPORT SYSTEM

E.9.1 RISER TENSIONERS

Ability To Skid Tensioners From Well Centerline

Quantity	no.: 6
Make/Type	: HYDRALIFT - INLINE
Capacity each tensioner	st: 800 kips
Maximum stroke	ft: 50
Wireline size	inch: N/A (9" ROD)
Line travel	ft: N/A (9" ROD)
Independent air compressors	yes/no: YES
Independent air drying unit	yes/no: YES
Riser Recoil System	yes/no: yes

E.9.2 GUIDELINE SYSTEM

N/A

E.9.3 REMOTE GUIDELINE REPL. TOOL

N/A

E.9.4 REMOTE GUIDELINE CUTTING TOOL

N/A

E.9.5 POD LINE TENSIONERS

TURN DOWN SHEAVE'S COMPLETE WITH STORM
LOOP WITHIN MOONPOOL INCLUDED WITHIN
DESIGN LAYOUT

E.9.6 TENSIONER/COMPENSATOR AIR PRESSURE VESSELS

Quantity	no.: 30
Total capacity	ft3: 2747
Rated working pressure	psi: 3000
Pressure relief valve installed	yes/no: YES

E.10 BOP CONTROL SYSTEM

Cameron or equivalent Mux system including: 2 each remote control panels, one located in driller's house and one in the control room , both panels incorporate full function and monitoring system for BOP's and diverter system. 1 each pod test stand and Mux system analyzer consisting of test stand and portable computer test set. 2 each Mux cable reels complete with 11,000' of Multiplex cable, one reel blue and one reel yellow for functioning yellow and blue pods plus one spare. 2 each stack mounted pods, complete with subsea electronics

E.10.1 SURFACE ACCUMULATOR UNIT

(See also E.2.8 & E.4.8 - Subsea Accumulators)

Make	: CAMERON or equivalent
Model/Type	: MUX
Location	: ACCUMULATOR ROOM
Soluble oil reservoir capacity	US gallons: 300
Oil/water mix.capacity	US gals/min: 838
Glycol reservoir capacity	US gallons: 1000

No. of bottles installed	no.: 38 team to evaluate bottles required for 10,000'
Useful cap. per accum. (w/o pre-charge)	US gallons: 40
Bottle working pressure	psi: 5000
Control manifold model	: MULTIPLEX
Regulator type	: PRESSURE SWITCH / RELIEF VALVES
Total useful accumulator volume (surface and stack)	
Equals all preventer opening and closing	yes/no: YES
Plus percent additional volume	%: 50

E.10.2 ACCUMULATOR HYDRAULIC PUMPS

Electric Driven	
Quantity	no.: 2
Power source	: From BUS A
Make	: US Motors
Model	:
Each driven by motor of power	hp: 100
Flow rate of each pump	US gals/min: 26
At minimum operating pressure	psi: 5000
Secondary	
Quantity	no.: 1
Power source	: From BUS B
Make	: US Motors
Model	:
Each driven by motor of power	hp: 100
Flow rate of each pump	US gals/min: 26
At minimum operating pressure	psi: 5000

E.10.3 DRILLER'S CONTROL PANEL

Graphic control panel at driller's position showing subsea functions with controls for the following functions of the BOP stack

Location.	Driller Work Station.
Boost Line Control Valve	yes/no: YES
Marine riser connector	yes/no: YES
All annular type BOP's	yes/no: YES
All ram type BOP's	yes/no: YES
Lock for ram type BOPs	yes/no: YES
Wellhead and LMRP connector	yes/no: YES
Inner and outer kill and choke line valve.	yes/no: YES
Low acc. pressure warning	yes/no: YES
Low reservoir level warning	yes/no: YES
Low rig air pressure warning	yes/no: YES
Pressure regulator for annular	yes/no: YES
Flowmeter	yes/no: YES
Quantity of pressure gauges	no.: 7+
Emergency push button for automatic riser disconnection	: YES
Other control functions	yes/no: YES
Control panel make	: CAMERON
Control panel model	: MULTIPLEX

E.10.4 REMOTE CONTROL PANELS

Ability to operate main closing unit valv. yes/no: NO
Quantity no.: 2
Make/Model : CAMERON / MULTIPLEX
Locations : DRILLERS WORK STATION & CONTROL ROOM
Operating System Routing (Direct/via Primary Control Panel) : DIRECT DUAL BUS

E.11 SUBSEA CONTROL SYSTEM

E.11.1 HOSE REELS

Quantity no.: 2 Bop Control (MUX)
Location : MOONPOOL
Make/Type : CAMERON
Maximum storage length each ft: 11000
Drive motor type : AIR
Quantity no.: 1 HOTLINE
Location : MOONPOOL
Make/Type : SYNPLEX (KEVLAR)
Maximum storage length each ft: 11,000
Drive motor type : AIR

E.11.2 POD HOSE

E.11.3 POD HOSE MANIFOLD

Make/Model : NONE
Surface test stump yes/no: YES

E.11.4 SURFACE TEST POD yes/no: N/A

E.12 ACOUSTIC EMER. BOP CONTROL SYSTEM: N/A

E.13 SUBSEA AUXILIARY EQUIPMENT

E.13.1 HOLE POSITION INDICATOR

Make/Type : Simrad
Quantity of monitors no.: 2 (Blue pod / Yellow pod)
Monitor location : Drillers Work station
Monitor location : Control Room
Recorder yes/no: no

E.13.2 RISER ANGLE INDICATOR

Make/Type : To be incorporated into Mux system
Quantity of monitors no.: 2 (Blue pod / Yellow pod)
Monitor location : Drillers Work station
Monitor location : Control Room
Recorder yes/no: no
Location Flex joint neck

E.13.3 SLOPE INDICATORS

Make : RECAN

Quantity	no.: 3
Provision for installation on	
BOP	yes/no: YES
Pin Connector	yes/no: NO
Other	: LOWER STACK, LMRP & RISER

E.13.5 ROV System Power and foundations supplied

E.14 CHOKE MANIFOLD Per Drawing # D-233669

E.14.1 CHOKE MANIFOLD (For Instrumentation, see H.3)

Make	: CONTROL FLOW
Minimum ID	inch: 3-1/16
Maximum WP	psi: 15000
H2S service	yes/no: YES
Quantity of fixed chokes	no.: n/a
Make	: n/a
Model	: n/a
Size (ID)	inch: n/a
Quantity of adjustable chokes	no.: n/a
Make	: n/a
Model	: n/a
Size (ID)	inch: n/a
Quantity of power chokes	no.: 3 (team to evaluate)
Make	: CONTROL FLOW
Model	: 15000
Size (ID)	inch: 2 Team to evaluate
Power choke remote control panel	yes/no: YES
Make	: Houston Digital
Model	: CPU 27" MONITOR AND MANUAL HYD. BACK-UP.
Location	: DRILLERS WORKSTATION / CHOKE MANIFOLD
Glycol injection	yes/no: NO

E.14.2 FLEXIBLE CHOKE AND KILL LINES (Connecting Riser to Drilling Unit)

Quantity	no.: 2
Make/Type	: Coflexip
ID	inch: 3 (team to review)
Working pressure/test pressure	psi/psi: 15000 / 22500
Quantity	no.: n/a
Make/Type	: n/a
ID	inch: n/a
Working pressure/test pressure	psi/psi: n/a

E.15 BOP TESTING EQUIPMENT

E.15.1 HYDRAULIC BOP TEST PUMP

Make	: SHAFFER
Model/Type	: ELECTRO HYDRAULIC VARIABLE SPEED 5 GPM
Pressure rating	psi: 22500

Chart recorder

yes/no: 0-5000 0-30000

E.15.2 BOP TEST STUMP

Quantity no.: 1
Test pressure psi: 15000
Type : VETCO / CAMERON
Size : 18.75
Connected to deck (welded/bolted) : BOLTED

E.16 WELLHEAD RUNNING/RETRIEVING/TESTING TOOLS (RT/RRT/TT)

E.16.1 RT's FOR CASING INSTALLATION Company Supplied
E.16.2 RRT's FOR CASING INSTALLATION Company Supplied
E.16.3 MISCELLANEOUS TOOLS Company Supplied
E.16.4 DP HANG-OFF SUBS Company Supplied
E.16.5 MINI HOSE BUNDLE FOR HYD. R. TC Company Supplied

E.16.6 EMERGENCY BOP RECOVER yes/no: yes
Make/type : CAMERON

F.1 HIGH PRESSURE MUD SYSTEM

System working pressure psi: 7500
System test pressure psi: 11250
Built to which design standard : ANSI, API

F.1.1 MUD PUMPS

Quantity no.: 4
Make : National
Model : 14P-220
Type (Triplex/Duplex) : Triplex
Liner sizes available inch: 5" - 9"
Mud pump drive motors no.: 2
Motor type : AC
Continuous power rating per motor hp: 1150
Fluid end type: Two piece
Maximum working pressure psi: 7500
Test pressure psi: 11250
Pump stroke counter type: Hitec
Supercharging pump type: Halco
Driven by motor of power hp: 100
Discharge/Suction line ID inch/inch 5" / 10"
M.P. Pulsation Dampener type: White Rock
Soft Pump : 1 system
Reset Relief Valve type: TBA
Working flowrate per pump at 90% of max spm
Maximum SPM : 105 SPM @ 100%

F.1.2 TRANSFER PUMPS/MIXING PUMPS (centrifugal)

Treatment pumps (Desilter/Desander)