

# RIG AND EQUIPMENT SPECIFICATIONS

## TECHNICAL ATTACHMENT B

INTERNATIONAL ASSOCIATION OF DRILLING CONTRACTORS

### STANDARD FORMAT EQUIPMENT LIST

### JACK-UP DRILLING UNITS

## TABLE OF CONTENTS

#### SECTION A - UNIT SPECIFICATIONS

- A1 Main Dimensions/Technical Description
- A2 Storage Capacities
- A3 Jack up Systems
- A4 Operational Capabilities
- A5 Variable Loading
- A6 Environmental Limits
- A7 Mooring System
- A8 Marine Loading Hoses
- A9 Cranes, Hoists, and Materials Handling
- A10 Helicopter Land Deck
- A11 Auxiliary Equipment

#### SECTION B - GENERAL RIG SPECIFICATIONS

- B1 Derrick and Substructure
- B2 Draw works and Associated Equipment
- B3 Derrick Hoisting Equipment
- B4 Rotating System

#### SECTION C - POWER SUPPLY SYSTEMS

- C1 Rig Power Plant
- C2 Emergency Generator

#### SECTION D - DRILLSTRING EQUIPMENT

- D1 Tubulars
- D2 Handling Tools
- D3 Fishing Equipment

#### SECTION E - WELL CONTROL/SUBSEA EQUIPMENT

- E1 Diverter BOP
- E2 Low Pressure BOP
- E3 High Pressure BOP
- E4 Other Blowout Preventers
- E5 BOP Control System
- E6 Choke Manifold
- E7 Flexible Choke & Kill Lines (BOP to Manifold)

## **RIG AND EQUIPMENT SPECIFICATIONS**

- E8 Flexible BOP Control Hoses
- E9 BOP Testing Equipment
- E10 BOP Handling

### **SECTION F - MUD SYSTEM/BULK SYSTEM**

- F1 High Pressure Mud System
- F2 Low Pressure Mud System
- F3 Bulk System

### **SECTION G - CASING / CEMENTING EQUIPMENT**

- G1 Casing Equipment
- G2 Cement Equipment

### **SECTION H - INSTRUMENTATION / COMMUNICATION**

- H1 Drilling Instrumentation at Driller's Position
- H2 Drilling Parameter Recorder
- H3 Instrumentation at Choke Manifold
- H4 Standpipe Pressure Gauge
- H5 Deviation Equipment
- H6 Calibrated Pressure Gauges
- H7 Rig Communication System
- H8 Environmental Instrumentation
- H9 Navigation Instrumentation
- H10 External Communications Equipment

### **SECTION I - PRODUCTION TEST EQUIPMENT**

- I1 Burners
- I2 Burner Booms
- I3 Lines Required on Burner Booms
- I4 Sprinkler System
- I5 Fixed Piping for Well Testing
- I6 Auxiliary Power Availability

### **SECTION J - WORKOVER TOOLS**

### **SECTION K - ACCOMMODATION**

- K1 Offices
- K2 Living Quarters

# **RIG AND EQUIPMENT SPECIFICATIONS**

## **SECTION L - SAFETY EQUIPMENT**

- L1 General Safety Equipment
- L2 Gas / Fire / Smoke Detection
- L3 Fire Fighting Equipment
- L4 Breathing Apparatus
- L5 Emergency First Aid Equipment
- L6 Helideck Rescue Equipment
- L7 Emergency Warning Alarms
- L8 Survival Equipment

## **SECTION M - POLLUTION PREVENTION EQUIPMENT**

- M1 Sewage Treatment
- M2 Garbage Compaction
- M3 Garbage Disposal / Grinder
- M4 Incinerator
- M5 Oily Water Separator

## **ADDITIONAL INFORMATION**



## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
<b>A. UNIT SPECIFICATIONS</b>		
Rig type:	Jack up	Jack up
Unit/Design/Shape:	BMC160	BMC160
Unit flag:	Liberia	Liberia
Unit classification:	ABS	ABS
IMO Certification: <span style="float: right;">yes/no</span>	Yes	Yes
Which code version:		
Year of Construction:	1981	1981
Construction Yard:	BMC Singapore	BMC Singapore
<b>A.1 MAIN DIMENSIONS / TECHNICAL DESCRIPTION</b>		
Light ship: <span style="float: right;">kips</span>	11,083.8 kips	11246.08Kips
Displacement at loadline: <span style="float: right;">kips</span>	14,500 Kips	14,500 Kips
Overall length of unit (including Helideck): <span style="float: right;">ft</span>	211ft	211ft
Overall width of unit (including anchor racks): <span style="float: right;">ft</span>	156ft	156ft
Hull length: <span style="float: right;">ft</span>	151ft	151ft
Hull width: <span style="float: right;">ft</span>	156ft	156ft
Hull depth: <span style="float: right;">ft</span>	18 ft.	18 ft.
Number of legs/length: <span style="float: right;">no. x ft</span>	3 X 217 ft.	3 X 217 ft.
Leg length available below hull: <span style="float: right;">ft</span>	Around 170 ft	Around 170 ft
Type of leg:	Tubular	Tubular
Leg spacing (center to center)		
Traverse: <span style="float: right;">ft</span>	128 ft	128 ft
Longitudinal: <span style="float: right;">ft</span>	113 ft	113 ft
Independent leg or matt:	Independent leg	Independent leg
Spud can diameter: <span style="float: right;">ft</span>	N/A	N/A
Spud can height: <span style="float: right;">ft</span>	N/A	N/A
Spud can footing area:	N/A	N/A
Spud can jetting system:Low & High pr (150 & 750+psi)	N/A	N/A
Bottom jets: <span style="float: right;">yes/no</span>	Yes (on bottom of legs)	Yes
Top jets: <span style="float: right;">yes/no</span>	Yes	No
Mat dimensions:	N/A	N/A
Length: <span style="float: right;">ft</span>	N/A	N/A
Width: <span style="float: right;">ft</span>	N/A	N/A
Depth: <span style="float: right;">ft</span>	N/A	N/A
Cantilever or slot:	Cantilever	Cantilever
Skid-off: <span style="float: right;">No / Yes</span>	Yes	Yes
Cantilever envelope:		
Reach AFT, from / to: <span style="float: right;">ft/ft</span>	0 ft to 40 ft	0 ft to 40 ft
Transverse, port/stbd:	12 ft port /12 ft starboard	10 ft port /10 ft S/B
Slot dimensions:	N/A	
Length: <span style="float: right;">ft</span>		
Width: <span style="float: right;">ft</span>		
Mat slot dimensions:	N/A	
Length: <span style="float: right;">ft</span>		
Width: <span style="float: right;">ft</span>		
Max. cantilever load: (combined hook + rotary + setback) <span style="float: right;">kips</span>	500 kips minimum at maximum cantilevered position and 10 ft left or right of the centerline.	400 Kips, 40 ft aft and 10 ft left or right from centerline
Max. rotary load:	750 kips	1000 kips
Max. setback load: <span style="float: right;">kips</span>	500 Kips	500 Kips
Fuel Consumption (avg. drilling): <span style="float: right;">bbl/day</span>	40bbl / day	40bbl / day
Accommodation for max. # of personnel: <span style="float: right;">no.</span>	92	92

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
(See K.2.1):		
<b>A.2 STORAGE CAPACITIES</b>		
Fuel:	bbl 2,162 bbl	2,162 bbl
Drilling water:	bbl 6,156 bbl	6,156 bbl
Potable water:	bbl 2,052 bbl	2,052 bbl
Mud processing tank (see F.2):	bbl 1,549 bbl	1,549 bbl
Active liquid mud (see F.2):	bbl 1,549 bbl	1,549 bbl
Independent oil base mud storage:	bbl	
Agitated:	yes/no Yes	yes
Independent base oil storage:	bbl 34 bbl	34 bbl
Independent brine storage:	bbl 104 bbl	104 bbl
Heavy brine accepted (e.g. bromide):	yes/no No	
Bulk bentonite/barite: (see F.3)	ft3 4,000 ft3	4,000 ft3
Bulk cement: (see F.3)	ft3 4,000 ft3	4,000 ft3
Sack storage:	sacks 5000 SX (1500 ft3)	5000 SX (1500 ft3)
Pipe rack:	ft2 2392ft2	2392ft2
Upper racks dimensions:	ft x ft 46x52	46x52
Maximum load capacity:	lb/ft2 200 lb/ft2	200 lb/ft2
Lower rack dimensions:	ft x ft 42x44	42x44
Maximum load capacity:	lb/ft2 200 lb/ft2	200 lb/ft2
Other rack:	ft x ft 30x3	30x3
Maximum load capacity:	lb/ft2 100	100
Other rack:	ft x ft	
Maximum load capacity:	lb/ft2	
Miscellaneous storage area:	ft2 550ft2	550ft2
Operator storage area:	ft2 7471ft2	7471ft2
Preload capacity (Required):	st 15,000 kips	15,000 kips
Time to fill and dump preload:	hrs 6 filling / 2 dumping	6 filling / 2 dumping
<b>A.3 JACKUP SYSTEMS</b>		
<b>A.3.1 Jacking Systems</b>		
	Baker Marine	Baker Marine
Make/type:	BMC / Rack and Pinion	BMC / Rack and Pinion
No. - jacks or pinions:	no. 18	18
Maximum variable jacking load:	kips 10,800 Kips.	10,800 Kips.
Jacking speed:	ft/min 1 ft/min	1 ft/min
Rack chocks available:	yes/no yes	no
Required for field tow:	yes/no yes	no
Required for ocean tow:	yes/no yes	no
<b>A.3.2 Raw Water Systems</b>		
	no 1	1
Pump location (water tower or leg):	Water Tower	Water Tower
Suction distance below hull (max):	ft 70 ft.	70 ft.
Salt water service pump:		
Quantity:	no. 3 each	3 each
Make/Type:	Pleuger/ Submersible	Pleuger/ Submersible
Capacity:	gal/min 830 gl/min	830 gl/min
@ pressure:	psi 40 psi	40 psi
Horsepower:	hp 50 hp	50 hp
Salt water service pump:		
Quantity:	no.	
Make/Type:		
Capacity:	gal/min	



## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
Max. wave period: sec	10	10
Max. wind velocity knots	70 knots	70 knots
Max. current velocity: knots	0	0
Max. heave (double amplitude): ft		
Max. pitch (double amplitude): degrees	5	5
Max. roll (double amplitude): degrees	5	5
Working water depth: ft	160 ft.	160 ft.
Drilling:		
Air gap (below bottom of main hull): ft	44.5 ft.	44.5 ft.
Max. wave height: ft	28 ft.	28 ft.
Max. wave period: sec	10 sec.	10 sec.
Max. wind velocity: knots	58 knots	58 knots
Max. current velocity: knots	0	0
Survival:		
Air gap (below bottom of main hull): ft		35 ft / 110 ff water depth
Max. wave height: ft		29.52 ft.
Max. wave period: sec		9.1 sec.
Max. wind velocity: knots		60.9 knots.
Max. current velocity: knots		2.33 knots.
Working water depth: ft		
Drilling:		
Air gap (below bottom of main hull): ft		
Max. wave height: ft		
Max. wave period: sec		
Max. wind velocity: knots		
Max. current velocity: knots		
Survival:		
Air gap (below bottom of main hull): ft		
Max. wave height: ft		
Max. wave period: sec		
Max. wind velocity: knots		
Max. current velocity: knots		
<b>A.7 MOORING SYSTEM</b>		
<b>A.7.1 Anchor Winches</b>		
Quantity: no.	4	4
Make/model:	BMC 6020	BMC 6020
Type (electric/hydraulic/diesel):	Electric	Electric
Total HP per winch: hp	40 hp motor	40 hp motor
Rated pull: st	50,000 lbs line pull.	50,000 lbs line pull.
Control locations (local/remote/both):	local	local
<b>A.7.2 Anchors</b>		
Quantity: no.	4	NO
Make/type:	BMC/ Cast steel stockless	
Weight : lbs.	15,900 lbs	
<b>A.7.3 Anchor Lines</b>		
Wire		
Quantity: (installed + spare): no.	4 each	4 each
Make/type:		
Construction:	IWRC Cable	IWRC Cable

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
Diameter: in	1-1/4"	1-1/4"
Useful length (nominal): ft	2500 ft	2500 ft
<b>A.7.4 Towing Gear</b>		
Towing bridle size: in	1 EA 2" X 36 ft Wire Rope	1 EA 2" X 30 ft Wire Rope
Hook-up system:	2 EA 2-1/4" X 100 Ft wire rope	2 EA 2-1/4" X 116 Ft wire rope
Rating: kips	31.5 t	40.1 T
Spare bridle: yes/no	No	yes
<b>A.7.5 Supply Vessel Mooring System</b>		
System description:	5" Nylon mooring rope	4"
Rating: st	224000 (KGF)	5" Nylon mooring rope
Location (port/stbd/both):	Both	224000 (KGF)
	4 each	
<b>A.8 MARINE LOADING HOSES</b>		
Location of loading manifolds (port/stbd/both): no.	Both	Both
<b>A.8.1 Potable Water Hoses</b>		
Quantity: no.	1	1
Size: in	3"	3"
Make/type:	Alfa Goma T509 / rubber	Alfa Goma T509 / rubber
Color coding: yes/no	yes	yes
Make/type connection:	Swedge type Fig 100 union	Swedge type union
<b>A.8.2 Drilling Water Hose</b>		
Quantity: no.	1	1
Size: in	3"	3"
Make/type:	Alfa Goma T509 / rubber	Alfa Goma T509 / rubber
Color coding: yes/no	Yes	Yes
Make/type connection:	Swedge type Fig 100 union	Swedge type union
<b>A.8.3 Gas/Fuel Oil Hose</b>		
Quantity: no.	1	1
Size: in	3"	3"
Make/type:	Alfa Goma T609 / rubber	Alfa Goma T609 / rubber
Color coding: yes/no	Yes	Yes
Make/type connection:	Swedge type Fig 100 union	Swedge type union
<b>A.8.4 Mud Chemical Hose (Liquid Mud)</b>		
Quantity: no.	1	1
Size: in	4"	4"
Make/type:	Alfa Goma T720 / rubber	Alfa Goma T720 / rubber
Color coding: yes/no	No	No
Make/type connection:	Swedge type Fig 100 union	Swedge type union
<b>A.8.5 Cement Hose</b>		
Quantity: no.	1	1
Size: in	4"	4"
Make/type:	Alfa Goma T720 / rubber	Alfa Goma T720 / rubber
Color coding: yes/no	No	No
Make/type connection:	Swedge type Fig 100 union	Swedge type union

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
<b>A.8.6 Liquid Mud Hose</b>		
Quantity: no.	1	1
Size: in	4"	4"
Make/type:	Alfa Goma T720 / rubber	Alfa Goma T720 / rubber
Color coding: yes/no	No	No
Make/type connection:	Swedge type Fig 100 union	Swedge type union
<b>A.8.7 Brine Hose</b>		
Use:		
Quantity: no.	1	1
Size: in	4"	4"
Make/type:	Alfa Goma T720 / rubber	Alfa Goma T720 / rubber
Color coding: yes/no	No	No
Make/type connection:	Swedge type union	Swedge type union
<b>A.8.8 Other</b>		
Use:		
Quantity: no.		
Size: in		
Make/type:		
Color coding: yes/no		
Make/type connection:		
<b>A.9 CRANES, HOIST, AND MATERIAL HANDLING</b>		
<b>A.9.1 Cranes, Revolving</b>		
Quantity: no.	1	1
Specification (API, etc.):	ABS	ABS
Make:	Baker Marine	Baker Marine
Type:	BMC 900	BMC 900
Location (frwd/aft/port/stbd):	Starboard side	Starboard side
Boom length: ft	100 ft	100 ft
Hook reach below main deck (block/whip): ft/ft	173 ft./ 198 ft	173 ft./ 198 ft
Block capacities and hoisting speeds:	25 st 0 to 52 ft/min	25 st 0 to 52 ft/min
Load/radius/speed (minimum radius): st/ft/(ft/sec)	25 st / 20 ft/ 31 ft min	25 st / 20 ft/ 31 ft min
Load/radius/speed (maximum radius): st/ft/(ft/sec)	7.5 st / 103 ft/ 31 ft min	7.5 st / 103 ft/ 31 ft min
Whip capacity and hoist speed: st/ft/(ft/sec)	3.3 st / 264 ft/min	3.3 st / 264 ft/min
Hook load indicator automatically:		
corrected for boom angle: yes/no	Yes	Yes
Alarm (audible, visual, both):	Yes	Yes
Automatic brake: yes/no	yes	yes
Safety latch on hooks: yes/no	Yes	Yes
Crown saver (limit switch): yes/no	Yes	Yes
Boom illumination: yes/no	Yes	Yes
Quantity: no.	1	1
Specification (API, etc.):	ABS	ABS
Make:	BMC	BMC
Type:	BMC 1600D-CU	BMC 1600D-CU
Location (frwd/aft/port/stbd):	Portside	Portside
Boom length: ft	100 ft	100 ft
Hook reach below main deck (block/whip): ft/ft	Total length 1840 ft/ 400 ft long 7/8"	Total length 1840 ft/ 400 ft long 7/8"

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
Block capacities and hoisting speeds:	50 st / 30 ft radius	50 st / 30 ft radius
Load/radius/speed (minimum radius): st/ft/(ft/sec)	50 st / 30 ft	50 st / 30 ft
Load/radius/speed (maximum radius): st/ft/(ft/sec)	9.5 st / 106.67 ft min	9.5 st / 106.67 ft min
Whip capacity and hoist speed: st/ft/(ft/sec)	6 st	6 st
Hook load indicator automatically:		
corrected for boom angle: yes/no	Yes	Yes
Alarm (audible, visual, both):	Yes	Yes
Automatic brake: yes/no	Yes	Yes
Safety latch on hooks: yes/no	Yes	Yes
Crown saver (limit switch): yes/no	Yes	Yes
Boom illumination: yes/no	yes	Yes
Quantity: no.		NA
Specification (API, etc.):		
Make:		
Type:		
Location (frwd/aft/port/stbd):		
Boom length: ft		
Hook reach below main deck (block/whip): ft/ft		
Block capacities and hoisting speeds:		
Load/radius/speed (minimum radius): st/ft/(ft/sec)		
Load/radius/speed (maximum radius): st/ft/(ft/sec)		
Whip capacity and hoist speed: st/ft/(ft/sec)		
Hook load indicator automatically:		
corrected for boom angle: yes/no		
Alarm (audible, visual, both):		
Automatic brake: yes/no		
Safety latch on hooks: yes/no		
Crown saver (limit switch): yes/no		
Boom illumination: yes/no		
Quantity: no.		
Specification (API, etc.):		
Make:		
Type:		
Location (frwd/aft/port/stbd):		
Boom length: ft		
Hook reach below main deck (block/whip): ft/ft		
Block capacities and hoisting speeds:		
Load/radius/speed (minimum radius): st/ft/(ft/sec)		
Load/radius/speed (maximum radius): st/ft/(ft/sec)		
Whip capacity and hoist speed: st/ft/(ft/sec)		
Hook load indicator automatically		
corrected for boom angle: yes/no		
Alarm (audible, visual, both):		
Automatic brake: yes/no		
Safety latch on hooks: yes/no		
Crown saver (limit switch): yes/no		
Boom illumination: yes/no		
<b>A.9.2 Forklifts</b>		
Quantity: no.	1	1
Make/type:	Yale / Electric	Yale / Electric
Rated capacity: st	1.5 st	1.5 st
Explosion proof: yes/no	No	No
<b>A.9.3 Monorail Overhead Cranes</b>	N/A	

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
Quantity: no. Make: Type: Rated Capacity: st Location(s):		
Quantity: no. Make: Type: Rated Capacity: st Location(s):		
Quantity: no. Make: Type: Rated Capacity: st Location(s):		
<b>A.9.4 Air Hoist/Derrick Winches</b>		
<b>A.9.4.1 Rig Floor Winches (Non man-riding)</b>		
Quantity: no. Make: Type: Rated capacity: lbs Wire diameter: in Automatic brakes: yes/no Overload protection: yes/no Automatic spooling: yes/no	1 each / V - door Ingersoll-Rand FA5A - LMX1HE 5 st / 10,000 lbs 3/4" No No No	1 each / V - door Ingersoll-Rand FA5A - LMX1HE 5 st / 10,000 lbs 3/4" No No No
Quantity: no. Make: Type: Rated capacity: st Wire diameter: in Automatic brakes: yes/no Overload protection: yes/no Automatic spooling: yes/no	1 each / aft Ingersoll-Rand FA5 5 st / 10000 lbs 3/4" Yes No No	1 each / aft Ingersoll-Rand FA5 5.5st / 11000lbs 3/4" Yes No No
<b>A.9.4.2 Monkey Board Work Winch</b>		
Quantity: no. Make: Type: Rated capacity: lbs Wire diameter: in Automatic brake: yes/no Overload protection: yes/no	1 ea Ingersoll-Rand BU7APTAB 1250 @ 60 ft/min 5/16" No No	1 ea Ingersoll-Rand BU7APTAB 1250 @ 60 ft/min 5/16" No No
Quantity: no. Make: Type: Rated capacity: st Wire diameter: in Automatic brakes: yes/no Overload protection: yes/no Automatic spooling: yes/no		

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
<b>A.9.4.3 Rig Floor “Man-Riding” Winch</b>		
Quantity: no.	1	2
Make:	Ingersoll-Rand	Ingersoll-Rand
Type:	FA150KGMR/01014	FA150KGMR/01014
Rated capacity: lbs	330 lbs / 150 kg	330 lbs / 150 kg
Wire diameter: in	10mm	10mm
Non-twisted wire: yes/no	no	no
Automatic brakes: yes/no	Yes	Yes
Overload protection: yes/no	Yes	Yes
Automatic spooling: yes/no	No	No
<b>A.9.4.4 Utility Winch (i.e. Deck Winch)</b>		
Quantity: no.	2	2
Make:	Ingersoll-Rand	Ingersoll-Rand
Type:	ODR-100-A24	ODR-100-A24
Rated capacity: lbs	10000 lbs	10000 lbs
Wire diameter: in	3/4”	3/4”
Automatic brakes: yes/no	No	No
Overload protection: yes/no	No	No
Automatic spooling: yes/no	No	No
Certified for man-riding: yes/no	No	No
Locations:	Under cantilever for BOP	Under cantilever for BOP
Quantity: no.	1 (Man riding winch)	1 (Man riding winch)
Make:	Ingersoll-Rand	Ingersoll-Rand
Type:	FA150KGMR/01014	FA150KGMR/01014
Rated capacity: lbs	330 lbs / 150 kg	330 lbs / 150 kg
Wire diameter: in	10mm	10mm
Automatic brakes: yes/no	Yes	Yes
Overload protection: yes/no	Yes	Yes
Automatic spooling: yes/no	Yes	Yes
Certified for man-riding: yes/no	yes	yes
Locations:	Under cantilever portside	Under cantilever portside
Quantity: no.	1	1
Make:	Ingersoll-Rand	Ingersoll-Rand
Type:	DDR60A20	DDR60A20
Rated capacity: st	5000 lbs / 2.5 st	5000 lbs / 2.5 st
Wire diameter: in	5/8”	5/8”
Automatic brakes: yes/no	No	No
Overload protection: yes/no	No	No
Automatic spooling: yes/no	No	No
Certified for man-riding: yes/no	No	No
Locations:	Port Forward Bridle	Port Forward Bridle
<b>A.9.4.5 BOP Hoists (see E.10.1)</b>		
<b>A.9.5 Transfer Baskets/Containers</b>		
<b>A.9.5.1 Personnel Transfer Baskets</b>		
	1 ea. Billy Pugh	1 ea. Billy Pugh
<b>A.9.5.2 Cargo Containers</b>		
Quantity: no.		<b>None</b>
Make/type:		

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
Quantity: no. Make/type:		No
Quantity: no. Make/type:		no
Quantity: no. Make/type:		No
<b>A.10 HELICOPTER LANDING DECK</b>		
Location (frwd/aft/port/stbd):	FWD	FWD
Dimensions: ft / ft	60 ft X 60 ft	60 ft X 60 ft
Perimeter safety net: yes/no	Yes	Yes
Deck load capacity: lb/ft2		
Maximum helicopter weight: kips		18.96kips
Designed for helicopter type:	Bell 212 / Sikorsky S-61N	AW189
Tie down points: yes/no	Yes 4 nos.	Yes 4 nos.
Covered by foam fire system (see L.3.6): yes/no	Yes	Yes
<b>A.10.1 Helicopter Refueling System</b>		
System make/type:	No	no
Fuel storage capacity: gal		
Jettison able: yes/no		
Fuel transport container, quantity: no.		
Volume: gal		
Fuel transport containers: no.		
Volume: gal		
Covered by foam fire system (see L.3.6) yes/no		
<b>A.11 AUXILIARY EQUIPMENT</b>		
<b>A.11.1 Water Distillation</b>		
Quantity: no.	none	none
Make/type:		
Capacity (each/total): gal/day		
Quantity: no.		
Make/type:		
Capacity (each/total): gal/day		
<b>A.11.2 Boilers</b>		
Quantity: no.	none	none
Make/type:		
Capacity (total system): lbs/hr		
Quantity: no.		
Make/type:		
Capacity (total system): lbs/hr		
<b>A.11.3 Air Conditioning</b>		

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
Make/type: Capacity (total system):                      tons Max. temperature rating:                      F	Carrier 40 Tons / R 407 C	Carrier 40 Tons / R 407 C
Make/type: Capacity (total system):                      tons Max. temperature rating:                      F	Carrier R 22 / 62 tons	Carrier R 22 / 62 tons
Make/type: Capacity (total system):                      tons Max. temperature rating:                      F		
<b>A.11.4 Electric Welding Sets</b>		
Quantity:    no. Current capacity:                                  amp Make/model: Type (fixed/portable):	2 500 Amps Miller / SRH 444 Fixed	2 500 Amps Miller / SRH 444 Fixed
Quantity:    no. Current capacity:                                  amp Make/model: Type (fixed/portable):	1 400 amps Lincoln / SAE 400 Fixed	1 400 amps Lincoln / SAE 400 Fixed
Quantity:    no. Current capacity:                                  amp Make/model: Type (fixed/portable):		
<b>A.11.5 High Pressure Cleaner</b>		
Quantity:    no. Make/type: Electric/pneumatic/diesel: Max delivered pressure:                      psi With steam:                                      yes/no	1 Myers/ D35-12AVD-2 Electric 1200 psi / 35 gpm No	1 Myers/ D35-12AVD-2 Electric 1200 psi / 35 gpm No
Quantity:    no. Make/type:	1 (Client) Steam Cleaner	1 (Client) Steam Cleaner
<b>B.1 DERRICK AND SUBSTRUCTURE</b>		
<b>B.1.1 Derrick / Mast</b>		
Make/type: Rated for wind speed With full set back:                      knots With no set back:                      knots Height:    ft Dimensions of base:                      ft x ft Dimensions of crown:                      ft x ft Gross nominal capacity:                      kips Static hook load:                                  kips Maximum number of lines:                      no. Ladders with safety cages and rests:                      yes/no Platform for crown sheave access:                      yes/no Counter balance, system for rig tongs and pipe spinning tong:                      yes/no Lighting system explosion proof:                      yes/no	DRECO / 6211-D105 Bolted  100 mph 115 mph 160 ft 30ft x 30ft 18' 7" X 13' 10" 1,330 kips 1,000, kips 12 Yes yes yes yes yes	DRECO / 6211-D105 Bolted  100 mph 115 mph 160 ft 30ft x 30ft 18' 7" X 13' 10" 1,330 kips 1,000, kips 12 Yes yes yes yes

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
<b>B.1.2 Racking Platform</b>		
Make/type:	Dreco	Dreco
Total current simultaneous capacity - drill pipe:	209 Stand / 5" OD Drill Pipe 8 Stand / 9-1/2" O.D. Drill collars	209 Stand / 5" OD Drill Pipe 8 Stand / 9-1/2" O.D. Drill collars
5" DP:ft	19,855 ft	19,855 ft
8" DC:	ft 760 ft	760 ft
Total	20,615 ft	20,615 ft
Tubing belly board:	yes/no	
<b>B.1.3 Automated Pipe Handling</b>		
Make/type:	No	No
Description:		
Make/type:		
Description:		
Make/type:		
Description:		
Make/type:		
Description:		
<b>B.1.4 Casing Stabbing Board</b>		
Make/type:	Yes 1	1
Adjustable from/to height above rotary:	DRECO/ Air Ope ft/ft 17 ft / 48 ft	DRECO/ Air Ope 17 ft / 48 ft
<b>B.1.5 Substructure</b>		
Make/type:	Dreco	Dreco
Drill floor height (above main deck):	ft 31 ft and 2-3/4"	31 ft and 2-3/4"
Length:	ft 42.7 ft	42.7 ft
Width:	ft 48.5 ft	48.5 ft
Setback capacity:	kips 500 kips	500 kips
Simultaneous setback + hook load capacity:	kips 1500 kips	1500 kips
Rotary beam capacity (total):	kips	
Clear height below rotary table beams (to main deck):	ft	
<b>B.1.6 Weather Proofing</b>		
Rig floor windbreaks:	yes/no Yes	Yes
Derrickman windbreaks:	yes/no No	No
Around process pits:	yes/no No	No
<b>B.1.7 Derrick TV Camera System</b>		
Camera located at:	Monkey Board / BOP	Monkey Board / BOP
Make/type:	Electro-Flow	Electro-Flow
Zoom/Pan/Tilt-function:	yes/no Yes	Yes
Monitor located at:	Drillers Console	Drillers Console



## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
Rated capacity: st	583 st	583 st
No. of sheaves: no.	6+1	6+1
Sheave diameter: in	52"	52"
Sheave grooved for line size: in	1-3/8"	1-3/8"
<b>B.3.2 Traveling Block</b>		
Make/type:	DRECO / RA-52-6	DRECO / RA-52-6
Rated capacity: st	500 st	500 st
No. of sheaves: no.	6	6
Sheave diameter: in	52"	52"
Sheave grooved for line size: in	1-3/8"	1-3/8"
<b>B.3.3 Hook</b>		
Make/type:	BJ/clevis	BJ/clevis
Rated capacity: st	500T	500T
Complete with spring assembly/hook		
Locking device: yes/no	No	No
<b>B.3.4 Swivel</b>		
Make/type:	National P 500	National P 500
Rated capacity: st	500	500
Test/working pressure: psi/psi	5000psi	5000psi
Gooseneck and wash pipe minimum ID: in	3"	3"
Left hand pin connection type:		
Access fitting for wireline entry on		
Top gooseneck: yes/no	yes	yes
<b>B.3.5 Drilling Line</b>		
Diameter: in	1-3/8"	1-3/8"
Construction:	BRIDON	BRIDON
Length (original): ft	6X19 EIPS IWRC	6X19 EIPS IWRC
Drilling line reel:		
Drum cover: yes/no	Yes	Yes
Drilling line drum power driven: yes/no	No	No
Spare drilling line: yes/no	Yes	Yes
Location (rig, shore, etc.):	Rig	Rig
Roller guides: yes/no	Yes	Yes
<b>B.3.6 Dead Line Anchor</b>		
Make/type:	National EB	National EB
Weight sensor: yes/no	Yes	Yes
Deadline dampener: yes/no	No	No
<b>B.3.7 Block Guidance System</b>		
Make		
<b>B.4 ROTATING SYSTEM</b>		
<b>B.4.1 Rotating Table</b>		
Make/type:	Continental Emsco/ T3750	Continental Emsco/ T3750
Maximum opening: in	37 1/2"	37 1/2"

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
Rated capacity: st	650 T	650 T
Two speed gearbox: yes/no	Yes	Yes
Emergency chain drive: yes/no	No	No
Driven by an independent electric motor: yes/no	Yes	Yes
Electric motor make/type:	EMD D79	EMD D79
Output power: hp	750 hp	750 hp
Maximum continuous torque: ft/lbs		
Drip pan/mud collection system: yes/no	yes	yes
<b>B.4.2 Master Bushings</b>		
Make/type:	Varco/ MPCH	Varco/ MPCH
Insert bowls:	API # 1,2,3	API # 1,2,3
<b>B.4.3 Kelly Bushing</b>		
Make/type:	Varco BJ 27 HDP	Varco BJ 27 HDP
Lock down assembly: yes/no	No	No
<b>B.4.4 Top Drive</b>		
Make:	Varco TDS3	Varco TDS3
Type (electric/hydraulic):	Electric	Electric
Rated capacity: st	770,000 lbs/ 385 st	770,000 lbs/ 385 st
Test/working pressure: psi/psi	5000 psi	5000 psi
Output power: hp	1100 HP DC Motor EMD M89	1100 HP DC Motor EMD M89
Maximum continuous torque: ft-lbs	31,000 ft/lbs	31,000 ft/lbs
Two-speed gear box: yes/no	No	No
Maximum rotary speed: rpm	209 rpm	209 rpm
Remote operated kelly cock: yes/no	Yes	Yes
Cooling system type:	Local Blower (15 HP motor)	Local Blower (15 HP motor)
Upper inside BOP (see also D.1.15)	Yes	Yes
Quantity: no.	1	1
Make/type:	Hydril 5-1/4 dual crank	Hydril 5-1/4 dual crank
Working pressure: psi	10,000 psi	10,000 psi
Max. OD body: in	7.70"	7.70"
Max. ID body: in	3-1/16"	3-1/16"
Connection type (box):	6 5/8 Reg RH	6 5/8 Reg RH
Connection type (pin):	6 5/8	6 5/8
<b>B.4.4.1 Top Drive Makeup / Breakout System</b>		
Make/type:	Varco/ Pipe Handler	Varco/ Pipe Handler
Model:	PH 60	PH 60
Max. makeup torque: ft/lbs	85,000	85,000
Max. break out torque: ft/lbs	85,000	85,000
Raised backup system: yes/no	No	No
Make/type:	Na	Na
Working height (range): ft/ft	Na	Na
<b>C. POWER SUPPLY SYSTEMS</b>		
<b>C.1 RIG POWER PLANT</b>		
<b>C.1.1 Diesel Engines</b>		
Quantity: no.	4 each	4 each

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
Make/type: Maximum continuous power:                   hp At rotation speed of:                       rpm Equipped with spark arrestors:           yes/no Mufflers installed:                           yes/no  Quantity:                                       no. Make/type: Maximum continuous power:                   hp At rotation speed of:                       rpm Equipped with spark arrestors:           yes/no Mufflers installed:                           yes/no  Quantity:                                       no. Make/type: Maximum continuous power:                   hp At rotation speed of:                       rpm Equipped with spark arrestors:           yes/no Mufflers installed:                           yes/no Total fuel consumption, drilling (avg):   bbl/day	Caterpillar D399 1214 hp 1200 rpm yes no	Caterpillar D399 1214 hp 1200 rpm yes no
<b>C.1.2 DC – Generator</b>		
Quantity:                                       no. Make/type: Continuous power:                           kw At rotation speed of:                       rpm Output volts:                                 volts	No	NA
Quantity:                                       no. Make/type: Continuous power:                           kw At rotation speed of:                       rpm Output volts:                                 volts	No	NA
<b>C.1.3 AC – Generator</b>		
Quantity:                                       no. Make/type: Continuous power:                           kw At rotation speed of:                       rpm Output volts:                                 volts	4 each Kato / 20971 model 1050- 685351121 1050 kw 1200 rpm 600 volts	4 each Kato / 20971 model 1050- 685351121 1050 kw 1200 rpm 600 volts
Quantity:                                       no. Make/type: Continuous power:                           kw At rotation speed of:                       rpm Output volts:                                 volts	no. no. kw rpm volts	no. no. kw rpm volts
<b>C.1.4 SCR System</b>		
Number of SCR:                               no. Make/type: Maximum continuous power (total):       kw Output volts:                                 volts	4 ea IPS / 2200 M 6000 750VDC Max	4 ea IPS / 2200 M 6000 750VDC Max

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
<b>C.1.5 Transformer System</b>		
Quantity: no.	2 ea	2 ea
Make/type:	Shikoku	Shikoku
Continuous power (each): kva	900	900
Output volts: volts	600/480	600/480
Frequency: hz	60	60
Quantity: no.	2 ea	2 ea
Make/type:	Shikoku	Shikoku
Continuous power (each): kva	150	150
Output volts: volts	480 // 208/120	480 // 208/120
Frequency: hz	60	60
Quantity: no.	2 ea	2 ea
Make/type:	Square D	Square D
Continuous power (each): kva	45	45
Output volts: volts	480 // 208/120	480 // 208/120
Frequency: hz	60	60
<b>C.1.6 Emergency Shutdown</b>		
Emergency shutdown switches for the complete power system (AC & DC), located at the Following points:	Drillers Shelter	Drillers Shelter
	Rig Manager Office	Rig Manager Office
<b>C.1.7 Compressed Air Systems</b>		
Air compressors - Cold Start:		
Quantity: no.	1 ea	1 ea
Make:	Gardner Denver	Gardner Denver
Model:	ADL100	ADL100
Rated capacity: ft3/min	89.6 cfm	89.6 cfm
Working pressure: psi	120 psi	120 psi
Prime mover (electric/diesel):	Diesel Engine	Diesel Engine
Continuous power: hp	30 hp	30 hp
Air compressors - Medium Pressure (rig air):		
Quantity: no.	2 each	2 each
Make:	Quincy	Quincy
Model:	QSi-500i	QSi-500i
Rated capacity: ft3/min	500 cfm	500 cfm
Working pressure: psi	120 psi	120 psi
Prime mover (electric/diesel):	Electric motor	Electric motor
Continuous power: hp	125 hp	125 hp
Quantity: no.		
Make:		
Model:		
Rated capacity: ft3/min		
Working pressure: psi		
Prime mover (electric/diesel):		
Continuous power: hp		

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
Air dryers: Quantity: no. Make: Rated capacity: ft3/min	1 Sullair SRD1000AC 1000 cfm	1 Quincy 1220 QDTH 1000 cfm
Air compressors - Low Pressure (bulk air): Quantity: no. Make: Model: Rated capacity: ft3/min Working pressure: psi Prime mover (electric/diesel): Continuous power: hp	NA	NA
Air dryers: Quantity: no. Make: Rated capacity: ft3/min	Na	NA
<b>C.1.8 Air Receivers</b>		
Volume (total): ft3 Pressure: psi Location:	214 cu.ft. 120 Engine room	214 cu.ft. 120 Engine room
Volume (total): ft3 Pressure: psi Location:	214 cu. Ft. 120 Under Cantilever and Rig floor	214 cu. Ft. 120 Under Cantilever and Rig floor
Volume (total): ft3 Pressure: psi Location:		
<b>C.2 EMERGENCY GENERATOR</b>		
<b>C.2.1 Engine</b>		
Quantity: no. Make/type: Maximum output: hp At rotation speed: rpm Automatic starting: yes/no Starting methods (air, hydraulic,, battery): Max. angle of operation: degrees	1 ea Caterpillar D399 1214 hp 1200 rpm Yes Battery	1 ea Caterpillar D399 1214 hp 1200 rpm Yes Battery
<b>C.2.2 AC - Generator</b>		
Quantity: no. Make/type: Maximum output: amps At rotation speed: rpm Output volts: volts Capable of back-feeding power to main bus: yes/no	1 ea Kato / 20971 1445 amps 1200 rpm 600 volts Yes	1 ea Kato / 20971 1445 amps 1200 rpm 600 volts Yes
<b>D. DRILLSTRING EQUIPMENT</b>		
<b>D.1 TUBULARS</b>		

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
<b>D.1.1 Kelly's</b>		
Quantity: no.	1 ea	1 ea
Nominal size OD: in	5-1/4"	5-1/4"
Shape type (hexagonal, square, triangular):	Hex	Hex
Total / working length: ft / ft	40'	40'
Connection type:	7-3/4"OD – 6 5/8"REG LH LOWER PIN CONNECTION 4 1/2 IF	7-3/4"OD – 6 5/8"REG LH LOWER PIN CONNECTION 4 1/2 IF
Quantity: no.		
Nominal size OD: in		
Shape type (hexagonal, square, triangular):		
Total / working length: ft / ft		
Connection type:		
<b>D.1.2 Kelly/TDS Saver Subs</b>		
Quantity: no.	3 ea	3 ea
Nominal kelly size: in	5"	5"
Connection type:	NC-50	NC-50
Protector:		
Quantity: no.	1 ea	1 ea
Nominal kelly size: in	3-1/2"	3-1/2"
Connection type:	NC-38	NC-38
Protector:		
Quantity: no.		
Nominal kelly size: in		
Connection type:		
Protector:		
<b>D.1.3 Drill Pipe</b>		
Drill pipe OD: in	5"	5"
Grade:	G-105	G-105
Total length: ft	15000 ft/ qty 485 pcs	20900 ft / qty 485 pcs
Range:	Range 2	Range 2
Weight: lbs/ft	19.5 lb/ft	19.5 lb/ft
Internally plastic coated: yes/no	yes	yes
Tool joint OD/ID: in/in	6-1/2" - 3-1/4"	6-1/2" - 3-1/4"
Tool joint pin length (original): in	4.5	
Tapered shoulder tool joints (box/pins): degree/degree	18	18
Connection type:	4 1/2IF	4 1/2IF
Hard facing:	Smooth X-Hard banding.	Smooth X-Hard banding.
API classification:	API 5D-7	API 5D-7
Thread protectors: yes/no	yes	yes
Drill pipe OD: in		
Grade:		
Total length: ft		
Range:		
Weight: lbs/ft		
Internally plastic coated: yes/no		
Tool joint OD/ID: in/in		
Tool joint pin length (original): in		

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
Tapered shoulder tool joints (box/pins): degree/degree		
Connection type:		
Type of hardfacing:		
API classification:		
Thread protectors: yes/no		
Drill pipe OD: in		
Grade:		
Total length: ft		
Range:		
Weight: lbs/ft		
Internally plastic coated: yes/no		
Tool joint OD/ID: in/in		
Tool joint pin length (original): in		
Tapered shoulder tool joints (box/pins): degree/degree		
Connection type:		
Hardfacing:		
API classification:		
Thread protectors: yes/no		
<b>D.1.4 Drill Pipe Pup Joints</b>		
Tool joint OD/ID: in/in	6-5/8 in X 3 1/4 in	6-5/8 in X 3 1/4 in
Grade:	G105	G-105
Length: ft	5	5 ft
Quantity: no.	1	2 ea
Length: ft	10	10 ft
Quantity: no.	1	2 ea
Length: ft	15	15 ft
Quantity: no.	1	2 ea
Length: ft		
Quantity: no.		
Weight: lbs/ft	19.5	19.5
Connection type:	4-1/2	4 ½ IF
Internally plastic coated: yes/no	Yes	Yes
API Classification:	Premium	Premium
Thread protectors: yes/no	Yes	yes
Tool joint OD/ID: in/in	4-3/4 / 2-5/8	4 ¾ / 2 5/8
Grade:	E-75	E-75
Length: ft	5	5
Quantity: no.	1	1
Length: ft	10	10
Quantity: no.	1	1
Length: ft	15	
Quantity: no.	1	
Weight: lbs/ft	13.3	13.3
Connection type:	3-1/2" IF	3 ½ IF
Internally plastic coated: yes/no	Yes	
API Classification:		
Thread protectors: yes/no	Yes	yes
Tool joint OD/ID: in/in		
Grade:		
Length: ft		
Quantity: no.		
Length: ft		

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
Quantity: no. Length: ft Quantity: no. Weight: lbs/ft Connection type: Internally plastic coated: yes/no Thread protectors: yes/no		
<b>D.1.5 Drill Pipe Casing Protectors</b>		
Initial stock: no. Make/type: OD: in Installation tools (manual/hydraulic/none):		
Initial Stock: no. Make/type: OD: in Installation tools (manual/hydraulic/none):		
<b>D.1.6 Heavy Weight Drill Pipe</b>		
Quantity: no. Nominal size OD: in Weight: lbs/ft Range: Tool joint OD / ID: in/in Type of hardfacing:  Internally plastic coated: yes/no Connection type: Thread protectors: yes/no	15 5 50 lbs/ft 2 6-5/8 in / 3-1/16 in  Yes 4-1/2 IF Yes	31 5" 50 lbs/ft 2 6-1/2" od / 3" id Fine particles  Yes 4-1/2 IF yes
Quantity: no. Nominal size OD: in Weight: lbs/ft Range: Tool joint OD / ID: in/in Type of hardfacing: Internally plastic coated: yes/no Connection type: Thread protectors: yes/no		
<b>D.1.7 Drill Collars</b>		
Quantity: no. OD body: in ID body: in Nominal length of each joint: ft Drill collar body (slick/spiral): Recess for "zip" elevator: yes/no Recess for slips: yes/no Stress relief pin groove: yes/no Boreback on box: yes/no Connection type:	4 9-1/2"  Range 2 Spiral Yes Yes Yes Yes 7-5/8	4 9 1/2" 3-1/4 Range 2 Spiral Yes Yes Yes Yes 7-5/8 Reg
Quantity: no. OD body: in ID body: in	24 8" 2-13/16	24 ea 8 1/2" 3"

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
Nominal length of each joint: ft	Range 2	Range 2
Drill collar body (slick/spiral):	Spiral	Spiral
Recess for "zip" elevator: yes/no	Yes	yes
Recess for slips: yes/no	Yes	yes
Stress relief pin groove: yes/no	Yes	yes
Boreback on box: yes/no	Yes	yes
Connection type:	6-5/8" Reg	6 5/8 Reg
Quantity: no.	30	30
OD body: in	6-1/2"	6 1/2"
ID body: in	2-13/16	3
Nominal length of each joint: ft	Range 2	Range 2
Drill collar body (slick/spiral):	Spiral	spiral
Recess for "zip" elevator: yes/no	Yes	Yes
Recess for slips: yes/no	Yes	Yes
Stress relief pin groove: yes/no	Yes	Yes
Boreback on box: yes/no	Yes	Yes
Connection type:	4"IF	4 1/2 IF
Quantity: no.		
OD body: in		
ID body: in		
Nominal length of each joint: ft		
Drill collar body (slick/spiral):		
Recess for "zip" elevator: yes/no		
Recess for slips: yes/no		
Stress relief pin groove: yes/no		
Boreback on box: yes/no		
Connection type:		
<b>D1.8 Short Drill Collars</b>		
Quantity: no.		
OD body: in		
ID body: in		
Nominal length of each joint: ft		
Stress relief pin groove: yes/no		
Boreback on box: yes/no		
Connection type:		
Quantity: no.		
OD body: in		
ID body: in		
Nominal length of each joint: ft		
Stress relief pin groove: yes/no		
Boreback on box: yes/no		
Connection type:		
Quantity: no.		
OD body: in		
ID body: in		

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
Nominal length of each joint: ft Stress relief pin groove: yes/no Boreback on box: yes/no Connection type:		
<b>D.1.9 Non-Magnetic Drill Collars</b>		
Quantity: no. OD body: in ID body: in Nominal length of each joint: ft Drill collar body (slick/spiral): Recess for "zip" elevator: yes/no Recess for slips: yes/no Stress relief pin groove: yes/no Boreback on box: yes/no Connection type:		No
<b>D.1.10 Core Barrels</b>		
Quantity: no. Make: Model: Size OD x ID: in x in Length: ft Top connection type: Spiral stabilizing ribs: yes/no Subs and handling tools: yes/no		No
<b>D.1.11 Stabilizers</b>		
Hole size: in Quantity: no. Make: OD blades: in Type blades (straight/spiral/welded/integral/sleeve): Type of blade hardfacing: OD body or fishing neck: in ID body: in Connection type: Float valve receptacle: yes/no		No
Hole size: in Quantity: no. Make: OD blades: in Type blades (straight/spiral/welded/integral/sleeve): Type of blade hardfacing: OD body or fishing neck: in ID body: in Connection type: Float valve receptacle: yes/no		
Hole size: in Quantity: no. Make: OD blades: in Type blades (straight/spiral/welded/integral/sleeve): Type of blade hardfacing:		

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
OD body or fishing neck: in ID body: in Connection type: Float valve receptacle: yes/no  Hole size: in Quantity: no. Make: OD blades: in Type blades (straight/spiral/welded/integral/sleeve): Type of blade hardfacing: OD body or fishing neck: in ID body: in Connection type: Float valve receptacle: yes/no		
<b>D.1.12 Roller Reamers</b>		
Hole size: in Quantity: no. Make: OD body: in ID body: in OD fishing neck: in Cutters supplied sets: no. Cutters, type: Connection, type:		No
Hole size: in Quantity: no. Make: OD body: in ID body: in OD fishing neck: in Cutters, supplied sets: no. Cutters, type: Connection, type:		
Hole size: in Quantity: no. Make: OD body: in ID body: in OD fishing neck: in Cutters, supplied sets: no. Cutters, type: Connection, type:		
<b>D.1.13 Shock Absorbers</b>		
Quantity: no. Make/type: OD body: in ID body: in OD fishing neck: in Connection type:		No
Quantity: no. Make/type:		

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
OD body: in ID body: in OD fishing neck: in Connection type:		
<b>D.1.14 Drilling Jars</b>		
Quantity: no. Make: Type (mechanical/hydraulic; up/down): OD body: in Min. ID body: in OD fishing neck: in Stroke: in Connection type:		No
Quantity: no. Make: Type (mechanical/hydraulic; up/down): OD body: in Min. ID body: in OD fishing neck: in Stroke: in Connection type:		
Quantity: no. Make: Type (mechanical/hydraulic; up/down): OD body: in Min. ID body: in OD fishing neck: in Stroke: in Connection type:		
<b>D.1.15 Inside BOP Valve (see also B.4.4)</b>		
Quantity: no. Make: OD: in Min. ID: in Connection type: Working pressure: psi	1 ea Vetco Gray 6 3/8" 2- 3/8" 4 1/2 IF 10,000 psi	1 ea Vetco Gray 6 3/8" 2- 3/8" 4 1/2 IF 10,000 psi
Quantity: no. Make: OD: in Min. ID: in Connection type: Working pressure: psi	1 ea Vetco Gray 4 3/4" 1 5/8" 3 1/2 IF 10,000 psi	1 ea Vetco Gray 4 3/4" 1 5/8" 3 1/2 IF 10,000 psi
<b>D.1.16 Fast Shut-Off Coupling</b>		
Make/type: Quantity: no. Size tool joint to fit:		
Make/type: Quantity: no. Size tool joint to fit:		

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
<b>D.1.17 Circulation Head</b>		
Quantity: no.	2ea	2ea
Make/type:	Wesco / H2S	Wesco / H2S
Bottom connection type:	4 ½ IF for 5 Dp	4 ½ IF for 5 Dp
Top connection type:	2" 1502 Male hammer union swedge	2" 1502 Male hammer union swedge
Wireline stripper: yes/no	No	
Working pressure: psi		
Quantity: no.		
Make/type:		
Bottom connection type:		
Top connection type:		
Wireline stripper: yes/no		
Working pressure: psi		
<b>D.1.18 Kelly Cocks</b>		
Upper:		
Quantity: no.	1 ea	2 ea
Make/type:	Hydril / U-I BOP dual crank	Hydril / U-I BOP dual crank
Working pressure: psi	10,000 psi	10,000 psi
Max. OD body: in	7. 700"	7. 700"
Min. ID body: in	3 1/16"	3 1/16"
Connection type:	6 5/8 Reg	6 5/8 Reg
Quantity: no.		
Make/type:		
Working pressure: psi		
Max. OD body: in		
Min. ID body: in		
Connection type:		
Lower:		
Quantity: no.	2 ea	2 ea
Make/type:	Hydril / L-I BOP	Hydril / L-I BOP
Working pressure: psi	10,000 psi	10,000 psi
Max. OD body: in	7-5/8"	7-5/8"
Min. ID body: in	3-1/16"	3-1/16"
Connection type:	6 5/8 Reg	6 5/8 Reg
Used as full open safety valve: yes/no	Yes	Yes
Quantity: no.	1 ea	1 ea
Make/type:	Hydril / L-I BOP	Hydril / L-I BOP
Working pressure: psi	10,000 psi	10,000 psi
Max. OD body: in	5"	5"
Min. ID body: in	2-1/16"	2-1/16"
Connection type:	6-5/8 Reg	6-5/8 Reg
Used as full open safety valve: yes/no	Yes	Yes
<b>D.1.19 Circulation Subs</b>		
Quantity: no.	No	



## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
For nom. OD drillpipe:	in	5"	5"
Make/type:		Hydril	Hydril
Max. OD of dart.:	in	2 ¾"	2 ¾"
Quantity:	no.	1 ea	1 ea
For nom. OD drillpipe:	in	3 ½"	3 ½"
Make/type:		Hydril	Hydril
Max. OD of dart.:	in	¾"	¾"
Quantity:	no.		
For nom. OD drillpipe:	in		
Make/type:			
Max. OD of dart.:	in		
<b>D.1.23 Near Bit - Subs (Box-Box)</b>			
Quantity:	no.	1 ea	1 ea
OD size:	in		
ID size:	in		
Top connection type:		7 5/8 Reg box	7 5/8 Reg box
Bottom connection type:		7 5/8 Reg box	7 5/8 Reg box
Bored for float valve:	yes/no	yes	yes
Float size:	in		
Quantity:	no.	2 ea	2 ea
OD size:	in		
ID size:	in		
Top connection:		7 5/8 Reg box	7 5/8 Reg box
Bottom connection:		6 5/8 Reg box	6 5/8 Reg box
Bored for float valve:	yes/no	yes	yes
Float size:	in		
Quantity:	no.	2 ea	2 ea
OD size:	in		
ID size:	in		
Top connection:		6 5/8 Reg box	6 5/8 Reg box
Bottom connection:		6 5/8 Reg box	6 5/8 Reg box
Bored for float valve:	yes/no	yes	yes
Float size:	in		
Quantity:	no.	2 ea	2 ea
OD size:	in		
ID size:	in		
Top connection:		4 ½ Reg box	4 ½ Reg box
Bottom connection:		4 1/2 Reg box	4 1/2 Reg box
Bored for float valve:	yes/no	yes	yes
Float size:	in		
Quantity:	no.		1 ea
OD size:	in		6 ½"
ID size:	in		2 13/16"
Top connection:			4 ½ IF box
Bottom connection:			4 ½ Reg box
Bored for float valve:	yes/no		yes
Float size:	in		3 7/16"
Quantity:	no.		1 ea
OD size:	in		6 11/16"
ID size:	in		2 ¼"



## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
Top connection size: Type (pin/box): Bottom connection size: Type (pin/box):	4 ½ IF Box 3 ½ IF Pin	4 ½ IF Box 3 ½ IF Pin
Quantity: no. OD size (max/min): in/in ID size: in Top connection size: Type (pin/box): Bottom connection size: Type (pin/box):	1 ea 6 3/8" 2 15/16" 4 1/2IF Box 4 IF Pin	1 ea 6 3/8" 2 15/16" 4 1/2IF Box 4 IF Pin
Quantity: no. OD size (max/min): in/in ID size: in Top connection size: Type (pin/box): Bottom connection size: Type (pin/box):	1 ea 6 7/16" 3 1/16" 4 ½ IF Pin 4 ½ IF Pin	1 ea 6 7/16" 3 1/16" 4 ½ IF Pin 4 ½ IF Pin
Quantity: no. OD size (max/min): in/in ID size : in Top connection size: Type (pin/box): Bottom connection size: Type (pin/box):	1 ea 9 ½" 3" 6 5/8 Reg Box 7 5/8 Reg Pin	1 ea 9 ½" 3" 6 5/8 Reg Box 7 5/8 Reg Pin
Quantity: no. ID size: in OD size (max/min): in/in Top connection size: Type (pin/box): Bottom connection size: Type (pin/box):	1 ea 3" 8" 4 ½ IF Box 6 5/8 Reg Pin	1 ea 3" 8" 4 ½ IF Box 6 5/8 Reg Pin
Quantity: no. ID size: in OD size (max/min): in/in Top connection size: Type (pin/box): Bottom connection size: Type (pin/box):	1 ea 3" 9 5/8" 4 ½ IF Box 7 5/8 Reg Pin	1 ea 3" 9 5/8" 4 ½ IF Box 7 5/8 Reg Pin
Quantity: no. ID size: in OD size (max/min): in/in Top connection size: Type (pin/box): Bottom connection size: Type (pin/box): (Contractor to provide all cross overs for its drill srting)	2 ea 2 ¼", 2 ½" 6 5/8" 4 ½ IF Box 4 ½ IF Pin	2 ea 2 ¼", 2 ½" 6 5/8" 4 ½ IF Box 4 ½ IF Pin
<b>D.1.25 Drilling Bumper Subs</b>		
Quantity: no. Make:	1 ea Bowen	1 ea Bowen

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
OD:	in	7 3/4"	7 3/4"
Stroke:	in	20"	20"
Connection type:		6 5/8 Reg	6 5/8 Reg
Quantity:	no.	1 ea	1 ea
Make:		NL Hycalog	NL Hycalog
OD:	in	8"	8"
Stroke:	in	20"	20"
Connection type:		6-5/8 Reg	6-5/8 Reg
Quantity:	no.	1 ea	1 ea
Make:		NL Hycalog	NL Hycalog
OD:	in	6-1/2"	6-1/2"
Stroke:	in	20"	20"
Connection type:		4-1/2 IF	4-1/2 IF
Quantity:	no.		
Make:			
OD:	in		
Stroke:	in		
Connection type:			
<b>D.1.26 Hole Openers</b>			
Quantity:	no.		No
Make:			
OD:	in		
Connection type:			
Quantity:	no.		
Make:			
OD:	in		
Connection type:			
<b>D.1.27 Under Reamer</b>			
Quantity:	no.		No
Make/type:			
OD min/OD max:	in/in		
Connection type:			
Quantity:	no.		
Make/type:			
OD min/OD max:	in/in		
Connection type:			
<b>D.2 HANDLING TOOLS</b>			
<b>D.2.1 Drill Pipe Elevators</b>			
Size:	in	5" , 4-1/2	5" , 4-1/2
Quantity:	no.	2 ea	2 ea
Make:		Varco BJ	Varco BJ
Model:		GG	GG
Rated capacity:	st	350T	350T
Size:	in	3 1/2"	3 1/2"
Quantity:	no.	2 ea	2 ea
Make:		Varco BJ	Varco BJ



## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
Quantity: no. Make/type:	2 VARCO BJ/ SDXL	2 VARCO BJ/ SDXL
Size: in Quantity: no. Make/type:	3 1/2" 2 VARCO/ SDXL	3 1/2" 2 VARCO/ SDXL
Size: in Quantity: no. Make/type:	2- 3/8", 3-1/2 4 ea VARCO/ SDML	2- 3/8", 3-1/2 4 ea VARCO/ SDML
Size: in Quantity: no. Make/type:	2-7/8", 3-1/2" 13-3/4" GRIP 1 EACH VARCO BJ / YT	2-7/8", 3-1/2" 13-3/4" GRIP 1 EACH VARCO BJ / YT
<b>D.2.5 Semi-Automatic DP Slips</b>		
Size range (largest/smallest): in/in Quantity: no. Make/type:		No
<b>D.2.6 Drill Collar Slips</b>		
Size: in Quantity: no. Make/type:	6-3/4 - 8-1/4, 8 - 9-1/2, 8-1/2 - 10" 1 ea VARCO BJ/ DCS-L	6-3/4 - 8-1/4, 8 - 9-1/2, 8-1/2 - 10" 1 ea VARCO BJ/ DCS-L
Size: in Quantity: no. Make/type:	5-1/2"-7" 6-1/2" 1 VARCO BJ/ DCS-R	5-1/2"-7" 6-1/2" 1 VARCO BJ/ DCS-R
Size: in Quantity: no. Make/type:	4"- 4-7/8" 1 ea VARCO BJ/ DCS-S	4"- 4-7/8" 1 ea VARCO BJ/ DCS-S
Size: in Quantity: no. Make/type:	4-3/4", 1 ea VARCO BJ/ DCS-S	4-3/4", 1 ea VARCO BJ/ DCS-S
<b>D.2.7 Drill Collar Safety Clamps</b>		
Quantity: no. Range: in/in	1ea 9 1/4" - 10 1/2"	1ea 9 1/4" - 10 1/2"
Quantity: no. Range: in/in	1 ea 2-3/8" 4-1/2"	1 ea 2-3/8" 4-1/2"
Quantity: no. Range: in/in		
Quantity: no. Range: in/in		
<b>D.2.8 Tubing Slips</b>		
Size: in Quantity: no.	2-3/8" - 3-1/2" 1 ea	2-3/8" - 3-1/2" 1 ea

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
Make/type:	Varco SDML	Varco SDML
Size: in		
Quantity: no.		
Make/type:		
<b>D.2.9 Tubing Spider</b>		
Slip size (max/min): in/in		
Quantity: no.		No
Make:		
Adapter Plate:		
<b>D.2.10 Drill Collar Lifting Subs</b>		
Quantity: no.	2 ea	2 ea
For DC OD: in	9-1/2"	9-1/2"
Connection Type:	7-5/8 Reg pin x 4 1/2" IF box	7-5/8 Reg pin x 4 1/2" IF box
Quantity: no.	4 ea	4 ea
For DC OD: in	8-1/2"	8-1/2"
Connection Type:	6-5/8 Reg pin x 4 1/2" IF box	6-5/8 Reg pin x 4 1/2" IF box
Quantity: no.	4 ea	2 ea
For DC OD: in	6-1/2"	6-1/2"
Connection Type:	4 1/2" IF pin x 4 1/2" IF box	4 1/2" IF pin x 4 1/2" IF box
Quantity: no.		
For DC OD: in		
Connection Type:		
<b>D.2.11 DC Lifting Plugs</b>		
Quantity: no.	NO	No
For OD DC: in		
Connection Type:		
Quantity: no.		
For OD DC: in		
Connection Type:		
Quantity: no.		
For OD DC: in		
Connection Type:		
Quantity: no.		
For OD DC: in		
Connection Type:		
<b>D.2.12 Bit Breakers</b>		
Quantity: no.	1 ea.	1 ea
For bit size: in	26 in	26 in
Quantity: no.	1 ea.	1
For bit size: in	17-1/2 in	17-1/2
Quantity: no.	1 ea.	1 ea
For bit size: in	12-1/4 in	12-1/4"

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
Quantity: no. For bit size: in	1 ea. 8-1/2 in	1 ea 8-1/2"
Quantity: no. For bit size: in	1 ea. 6 in	1 6-3/4
Quantity: no. For bit size: in	1 6-1/2	1 6-1/2
Quantity: no. For bit size: in	1 6	1 6
Quantity: no. For bit size: in	1 5-7/8	1 5-7/8
Quantity: no. For bit size: in	1 4-3/4	1 4-3/4
<b>D.2.13 Elevator Links</b>		
Quantity of sets: no. Make/type: Size: in Length: ft Rated capacity: st	1 ea.  2-3/4" 132 in 350T	1 set BJ weldless 3 3/8 11 ft 350 T
Quantity of sets: no. Make/type: Size: in Length: ft Rated capacity: st	1 ea.  3 1/2" 108 in 350 T	1 set BJ weldless 3 13 /16 9 ft 350 T
Quantity of sets: no. Make/type: Size: in Length: ft Rated capacity: st	1 set BJ weldless 3 1/2 " 15 ft 500 T	1 set BJ weldless 4 11/16" 15 ft 500 T
Quantity of sets: no. Make/type: Size: in Length: ft Rated capacity: st		
<b>D.2.14 Kelly Spinner</b>		
Make/type:		
<b>D.2.15 Drill pipe Spinner</b>		
Make/type: Size (max/min): in/in	One  Varco BJ/SSW30 2 7/8" to 8"	2 ea  Varco BJ/SSW30 2 7/8" to 8"
<b>D.2.16 Mud Saver Bucket</b>		
Make: Size: in	One  3-1/2" – 5"	1ea 3 1/2"- 5"

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
Make: Size: <span style="float: right;">in</span>		
<b>D.2.17 Hydraulic Make-Up/Breakout Machine (e.g. EZ Torque)</b>	One	1
Make/type: Maximum line pull: <span style="float: right;">ft lbs</span>	Drilco- Hydraulic cathead 150,000 ft/lbs	Drilco- Hydraulic cathead 150,000 ft/lbs
<b>D.2.18 Rotary Rig Tongs</b>		
Quantity (sets): <span style="float: right;">no.</span> Make/type: Size range (max OD/min OD): <span style="float: right;">in/in</span> Torque rating: <span style="float: right;">ft-lbs</span>	1 Varco BJ/ T-55 2-7/8 / 8-1/5	1 Varco BJ/ T-55 2-7/8 / 8-1/5
Quantity (sets): <span style="float: right;">no.</span> Make/type: Size range (max OD/min OD): <span style="float: right;">in/in</span> Torque rating: <span style="float: right;">ft/lbs</span>	1 Varco BJ / HT 65 3-1/2" – 13" 1 Varco BJ/ HT 100 4 TO 9-3/4	1 Varco BJ / HT 65 3-1/2" – 13" 65000 1 Varco BJ/ HT 100 4 TO 9-3/4 100000
<b>D.2.19 Tubing Tongs (manual)</b>		
Quantity (sets): <span style="float: right;">no.</span> Make/type: Size range (max OD/min OD): <span style="float: right;">in/in</span> Torque rating: <span style="float: right;">ft/lbs</span>	NO	1 Varco /HT14 2 3/8-3 1/2 14000
<b>D.2.20 Tubing Tong Power</b>	No	Yes
Quantity: <span style="float: right;">no.</span> Make/type: Size range (max OD/min OD): <span style="float: right;">in/in</span> Max output torque: <span style="float: right;">ft/lbs</span> Torque indicator: <span style="float: right;">yes/no</span> Back-up arm: <span style="float: right;">yes/no</span>	1 Eckle 2-1/16" to 7-7/8" 20,000 ft/lbs No Yes	1 Eckle 2-1/16" to 7-7/8" 20,000 ft/lbs No Yes
<b>D.2.21 Iron Roughneck</b>		N/A
Make/type: Size range (max OD/min OD): <span style="float: right;">in/in</span> Max. makeup torque <span style="float: right;">ft/lbs</span> Max. breakout torque <span style="float: right;">ft/lbs</span>		
<b>D.3 FISHING EQUIPMENT</b> <b>To include all fishing tools for contractor provided tubular both from OD and ID.</b>	No	

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
<b>D.3.1 Overshots</b>		
Quantity: no.	1 ea	1 ea
Make/type:	Bowen/S.F.S 150	Bowen/S.F.S 150
Overshot OD: in	11-3/4	11-3/4
To catch size: in	5" 6"	5" 6"
To catch size: in	6-1/4", 6-1/2", 6-3/8"	6-1/4", 6-1/2", 6-3/8"
To catch size: in	8", 8 1/2", 9", 9-1/2"	8", 8 1/2", 9", 9-1/2"
Overshot guide OD: in	1X 21"; 2 X 16"	1X 21"; 2 X 16"
Extension sub length: in		
Lipped guide (oversize, regular):		
Grapples (spiral, basket, both):	both	both
Pack offs: yes/no		
Top subs connection type:		
Quantity: no.	1 ea	1 ea
Make/type:	Bowen / FS-150	Bowen / FS-150
Overshot OD: in	10-5/8"	10-5/8"
To catch size: in	5"-6-1/8"-6-1/4", 6-3/8", 6 1/2"	5"-6-1/8"-6-1/4", 6-3/8", 6 1/2"
To catch size: in	6-3/4", 7-1/4", 7-7/8", 8"	6-3/4", 7-1/4", 7-7/8", 8"
Overshot guide OD: in	1X15", 1X21"	1X15", 1X21"
Extension sub length: in		
Lipped guide (oversize, regular):		
Grapples (spiral, basket, both):	both	both
Pack offs: yes/no		
Top sub connection type:		
Quantity: no.	1 ea	1 ea
Make/type:	Bowen / Series-150	Bowen / Series-150
Overshot OD: in	8-1/8"	8-1/8"
To catch size: in	5" with spiral	5" with spiral
To catch size: in		
To catch size: in		
Overshot guide OD: in	12 3/4"	12 3/4"
Extension sub length: in	60"	60"
Lipped guide (oversize, regular):	regular	regular
Grapples (spiral, basket, both):	both	both
Pack offs: yes/no	yes	yes
Top sub connection type:	6 5/8 H90 box	6 5/8 H90 box
Quantity: no.	1 ea	1 ea
Make/type:	Bowen / Series-150	Bowen / Series-150
Overshot OD: in	10 1/8"	10 1/8"
To catch size: in	8 1/2" with spiral	8 1/2" with spiral
To catch size: in	7 3/4" with basket	7 3/4" with basket
To catch size: in		
Overshot guide OD: in	10 1/8 " - 15"	10 1/8 " - 15"
Extension sub length: in	36"	36"
Lipped guide (oversize, regular):	regular	regular
Grapples (spiral, basket, both):	both	both
Pack offs: yes/no	yes	yes
Top sub connection type:	6 5/8 reg box	6 5/8 reg box
Quantity: no.	1 ea	1 ea
Make/type:	Bowen / Series-150	Bowen / Series-150
Overshot OD: in	11 1/4"	11 1/4"
To catch size: in	9 5/8" with spiral	9 5/8" with spiral
To catch size: in	8 7/8" with basket	8 7/8" with basket

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
To catch size: in		
Overshot guide OD: in	11 1/4" - 21" - 15"	11 1/4" - 21" - 15"
Extension sub length: in	36"	36"
Lipped guide (oversize, regular):	regular	regular
Grapples (spiral, basket, both):	both	both
Pack offs: yes/no	yes	yes
Top sub connection type:	7 5/8 reg box	7 5/8 reg box
Quantity: no.		
Make/type:		
Overshot OD: in		
To catch size: in		
To catch size: in		
To catch size: in		
Overshot guide OD: in		
Extension sub length: in		
Lipped guide (oversize, regular):		
Grapples (spiral, basket, both):		
Pack offs: yes/no		
Top sub connection type:		
<b>D.3.2 Hydraulic Fishing Jar</b>		
Quantity: no.	1 ea	1 ea
Make/type:	Bowen/ ype Z	Bowen/ ype Z
OD body: in	7-3/4"	7-3/4"
Min. ID: in		
Stroke: in		
Connection type:	6 5/8 Reg	6 5/8 Reg
Repair kit: yes/no		
Quantity: no.	1 ea	1 ea
Make/type:	Bowen/ ype Z	Bowen/ ype Z
OD body: in	6-1/4	6-1/4
Min. ID: in		
Stroke: in		
Connection type:	4-1/2 IF	4-1/2 IF
Repair kit: yes/no		
Quantity: no.		
Make/type:		
OD body: in		
Min. ID: in		
Stroke: in		
Connection type:		
Repair kit: yes/no		
<b>D.3.3 Jar Intensifier</b>		
Quantity: no.	NO	No
Make/type:		
OD body: in		
Min. ID: in		
Connection type:		
Repair kit: yes/no		
Quantity: no.		
Make/type:		
OD body: in		

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
Min. ID: in		
Connection type:		
Repair kit: yes/no		
<b>D.3.4 Surface Jar</b>	NO	
Quantity: no.		No
Make/type:		
OD body: in		
Stroke: in		
Connection type:		
Repair kit: yes/no		
<b>D.3.5 Fishing Bumper Subs</b>		
Quantity: no.	No	1 ea
Make/type:		Bowen
OD body: in		7 3/4"
Min. ID: in		3 1/2"
Stroke: in		20"
Connection type:		6 5/8 Reg pin x box
Quantity: no.		1 ea
Make/type:	NO	Hycalog
OD body: in		6-1/2"
Min. ID: in		2-7/8"
Stroke: in		
Connection type:		4-1/2 IF
<b>D.3.6 Safety Joints</b>		
Quantity: no.	No	
Make/type:		
OD body: in		
Min. ID: in		
Connection type:		
Quantity: no.		
Make/type:		
OD body: in		
Min. ID: in		
Connection type:		
<b>D.3.7 Junk Baskets (Reverse Circulation)</b>	Yes	Yes
Quantity: no.	1 ea	1 ea
Make/type:	Bowen	Bowen
For hole size: in	12-1/4"	12-1/4"
OD body: in	11-3/8"	11-3/8"
Connection type:	6-5/8" Reg	6-5/8" Reg
Inside magnet available: yes/no		
Mill shoes type (A, B, C):	B	B
Quantity: no.	1 ea	1 ea
Make/type:	Bowen	Bowen
For hole size: in	8-1/2"	8-1/2"
OD body: in	8-1/8"	8-1/8"
Connection type:	6-5/8" R	6-5/8" R
Inside magnet available: yes/no		

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
Mill shoes type (A, B, C):	B	B
Quantity: no.		
Make/type:		
For hole size: in		
OD body: in		
Connection type:		
Inside magnet available: yes/no		
Mill shoes type (A, B, C): yes/no		
<b>D.3.8 Junk Subs</b>	Yes	yes
Quantity: no.	1 ea	1 ea
Make/type:	BOWEN	BOWEN
For hole size: in	12-1/4"	12-1/4"
OD body: in	9-3/4"	9-3/4"
Connection type:	6-5/8 Reg	6-5/8 Reg
Quantity: no.	2 ea	2 ea
Make/type:	BOWEN	BOWEN
For hole size: in	8-1/2"	8-1/2"
OD body: in	6-5/8"	6-5/8"
Connection type:	4-1/2" Reg	4-1/2" Reg
Quantity: no.	2	
Make/type:		
For hole size: in	6"	
OD body: in		
Connection type:		
<b>D.3.9 Flat Bottom Junk Mill</b>		
Quantity: no.	NO	1 ea
Make/type:		Bowen
OD flat mill: in		10 7/8"
Connection type:		6 5/8 Reg pin
Quantity: no.		1 ea
Make/type:	NO	Bowen
OD flat mill: in		7 7/8"
Connection type:		4 1/2 Reg
Quantity: no.		1 ea
Make/type:	NO	Bowen
OD flat mill: in		5 5/8"
Connection type:		3 1/2 Reg
<b>D.3.10 Magnet Fishing Tools</b>		
Quantity: no.	NO	1 ea
Make/type:		Milwaukee
OD body: in		10"
Connection type:		6 5/8 Reg pin
Quantity: no.		1 ea
Make/type:	NO	Milwaukee
OD body: in		7"
Connection type:		4 1/2 Reg pin

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
Quantity: no. Make/type: OD body: in Connection type:		
<b>Ditch Magnet In Flow Channel</b> Yes/No <b>D.3.11 Taper Taps</b>	No	
Quantity: no. Make: Tap OD (max/min): in/in OD body: in Length overall: ft Connection type:	No	1 ea Baash ross 4 1/2" max, 2 1/4" min. 8" 24" 6 5/8 Reg
Quantity: no. Make: Tap OD (max/min): in/in OD body: in Length overall: ft Connection type:		1 ea Bowen 4 1/2" max, 2 1/4" min. 6 1/8" 32" 4 1/2 IF
Quantity: no. Make: Tap OD (max/min): in/in OD body: in Length overall: ft Connection type:		
<b>D.3.12 Die Collars</b>		No.
Quantity: no. Make/type: OD (Max/Min): in/in OD body: in Length: ft Connection type:		
Quantity: no. Make/type: OD (Max/Min): in/in OD body: in Length: ft Connection type:		
<b>E. WELL CONTROL</b>		
<b>E.1 DIVERTER</b>	Yes	
Fixed: yes/no Make/type: Maximum bore: in ID of insert packer: in Working pressure: psi Annular: no. Make/type: Maximum bore: in ID of insert packer: in Working pressure: psi	No      Hydrill 21 1/4" 18.5 2000 psi	No REGAN KFL 30" 29 1/2" 500 Psi 1 Hydrill 21 1/4" 18.5 2000 psi

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
Bottom connection:		
Size: in	21-1/4 in	21 1/4
Working pressure: psi	2,000 psi	2,000 psi
Gasket type:	R-73	RX-73
Rams: no.		
Make/type:	No	
Ram packer type:	30" MSS FLANGE	30" MSS FLANGE
Ram packer type:	2000 psi	2000 psi
Max bore size:		
Working pressure: psi		
Bottom connection:		
Size: in		
Working pressure: psi		
Gasket type:		
Number of Diverter outlets: no.		
Outlet OD (nominal): in		
<b>E.1.1 Diverter Flow Lines</b>		
Quantity: no.	2 ea.	2
Nominal size of flow lines: in	12 in	12 in
Running from Diverter to:	PORT AND STARBOARD	Port and Starboard
Valve make/type:	WKM/370B	WKM/370B
Quantity: no.	2 ea	2
Size: in	12 in	12
Working pressure: psi	500 psi	500 psi
Valve operator (air/hydraulic):	Hydraulic	Hydraulic
Valve make/type:		
Quantity: no.		
Size: in		
Working pressure: psi		
Valve operator (air/hydraulic):		
System pressure rating: psi		
Flex hose in flow line: yes/no		
<b>E.1.2 Diverter Control Panel</b>		
Primary make/type:		
Location:	Main BOP Control Panel (koomey)	Main BOP Control Panel (koomey)
Remote make/type:	Koomey	Koomey
Location:	Driller shelter	Driller shelter
Remote make/type:	Koomey AG7GM	Koomey AG7GM
Location:	S/B Main Deck near accommodation	S/B Main Deck near accommodation
<b>E.2 LOW PRESSURE BLOWOUT PREVENTERS</b>		
All appropriate components H2S rated: yes/no	Yes	yes
<b>E.2.1 Ram Type Preventers</b>		
Quantity: no.	1 ea.	1 ea
Make/model:	Cameron	Cameron
Type: (single/double/triple):	Double	single
Size: in	21-1/4 in	21 1/4"
Working pressure: psi	2,000 psi	2000 psi
Ram locks: yes/no	Yes	yes



## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
Make/type: Size: in Working pressure: psi Gasket type Hydraulic/manual/non-return:  Quantity: no. Make/type: Size: in Working pressure: psi Gasket type Hydraulic/manual/non-return:		
<b>E.2.6 Choke Line Valves</b>		
Quantity: no. Make/type: Size: in Working pressure: psi Gasket type Hydraulic/manual:		
<b>Quantity: no.</b> Make/type: Size: in Working pressure: psi Gasket type Hydraulic/manual:		
<b>E.3 HIGH PRESSURE BLOWOUT PREVENTERS</b>		
All appropriate components H2S rated: yes/no	Yes	Yes
<b>E.3.1 Ram Type Preventers</b>		
Quantity: no. Make/model: Type (single/double/triple): Size: in Working pressure: psi Ram locks: yes/no Type (manual/hydraulic): H2S service: yes/no Side outlets: no. Size: in WP: psi Bottom connection: Top connection: Shear ram boosters: yes/no	1 ea. Cameron / Type U SINGLE 13-5/8 in 10,000 psi Yes Manual YES 2 ea. 4-1/16 in 10,000 psi Flange – BX-159 Flange – BX-159 NONE	1 ea Cameron/ Type U Single 13-5/8" 10,000 psi Yes Hydraulic Yes 2 4-1/16 in 10,000 psi Flange – BX-159 Flange – BX-159 NONE
Quantity: no. Make/model: Type (single/double/triple): Size: in Working pressure: psi Ram locks: yes/no Type (manual/hydraulic): H2S service: yes/no	1 Cameron / Type U Double 13-5/8 in 10,000 psi Yes Manual Yes	1 ea Cameron / Type U Double 13-5/8" 10,000 psi Yes manual yes

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
Side outlets: no.	4 ea.	4 ea.
Size: in	4-1/16"	4-1/16"
WP: psi	10,000 psi	10,000 psi
Bottom connection:	Flange – BX-159	Flange – BX-159
Top connection:	Flange – BX-159	Flange – BX-159
Shear ram boosters: yes/no	Yes	yes
<b>E.3.2 Available Rams (installed &amp; spare)</b>		
Quantity/type/size: no./type/in	2 ea. 9 5/8"	2 ea. 9 5/8"
Quantity/type/size: no./type/in	2 ea. 7 5/8"	2 ea. 7 5/8"
Quantity/type/size: no./type/in	2 ea. 7"	2 ea. 7"
Quantity/type/size: no./type/in	2 ea. 5 1/2"	2 ea. 5 1/2"
Quantity/type/size: no./type/in	4 ea. 5"	4 ea. 5"
Quantity/type/size: no./type/in	6 ea. 3 1/2"	6 ea. 3 1/2"
Quantity/type/size: no./type/in	2 ea. 2 7/8"	2 ea. 2 7/8"
Quantity/type/size: no./type/in	2 ea. SBR	2 ea. SBR/2ea ISR
Quantity/type/size: no./type/in	2 ea. 2 7/8" Dual Pipe Rams	2 ea. 2 7/8" Dual Pipe Rams
Quantity/type/size: no./type/in	2 ea. 3 1/2" Dual Pipe Rams	2 ea. 3 1/2" Dual Pipe Rams
<b>E.3.3 BOP Ram Configuration (normal)</b>		
Upper:	Pipe	Pipe
Upper middle:		
Middle:	Blind /Shear	Shear rams ISR
Middle lower:		
Lower:	Pipe	Pipe rams
<b>E.3.4 Annular Preventer</b>		
Quantity: no.	1 ea.	1 ea
Make/type:	Hydril GL	Hydril GK
Size: in	13 5/8 in.	13-5/8"
Working pressure: psi	5,000 psi	5000 psi
Bottom connection:	Flanged – BX-159	Flanged BX-159
Top connection:	Flanged BX-160	Flanged BX-160
Quantity: no.		
Make/type:		
Size: in		
Working pressure: psi		
Bottom connection:		
Top connection:		
<b>E.3.5 Kill Line Valves</b>		
Quantity: no.	1 ea.	1 ea
Make/type:	CAMERON Hydraulically Operated	Cameron CIW GATE
Size: in	3 1/8 in	3-1/8"
Working pressure: psi	10,000	10,000 psi
Gasket type:	BX-154	BX-154
Hydraulic/manual/non-return:	Hydraulic	Hydraulic
Quantity: no.	1 ea.	3 ea
Make/type:	Cameron "F" manually operated	Cameron CIW GATE/FCC
Size: in	3 1/8 in	3-1/8"

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
Working pressure: psi	10,000 psi	10,000 psi
Gasket type:	BX-154	BX-154
Hydraulic/manual/non-return:	Manual	Manual
Quantity: no.	2ea	2ea
Make/type:	CIW/R	CIW/R
Size: in	3 1/16	3 1/16 bore
Working pressure: psi	10,000 psi	10,000 psi
Gasket type:	BX-154	BX-154
Hydraulic/manual/non-return:	Non return	Non return
<b>E.3.6 Choke Line Valves</b>		
Quantity: no.	1 ea	1 ea
Make/type:	Cameron CIW-GATE	Cameron CIW- type FCC GATE
Size: in	3-1/8"	3-1/8"
Working pressure: psi	10,000 psi	10,000 psi
Gasket type:	BX-154	BX-154
Hydraulic/manual:	Hydraulic	Hydraulic
1	3	3
Make/type:	Cameron CIW-GATE	Cameron CIW-GATE
Size: in	3-1/8"	3-1/8"
Working pressure: psi	10,000 psi	10,000 psi
Gasket type:	BX-154	BX-154
Hydraulic/manual:	Manual	Manual
<b>E.4 OTHER BLOWOUT PREVENTERS</b>		
All appropriate components H2S rated	yes/no	
<b>E.4.1 Ram Type Preventers</b>		
Quantity: no.		
Make/model:		
Type (single/double/triple):		
Size: in		
Working pressure: psi		
Ram locks: yes/no		
Type (manual/hydraulic):		
H2S service: yes/no		
Side outlets: no.		
Size: in		
WP: psi		
Bottom connection:		
Top connection:		
Shear ram boosters: yes/no		
Quantity: no.		
Make/model:		
Type (single/double/triple):		
Size: in		
Working pressure: psi		
Ram locks: yes/no		
Type (manual/hydraulic):		
H2S service: yes/no		
Side outlets: no.		
Size: in		

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
WP: psi Bottom connection: Top connection: Shear ram boosters: <span style="float: right;">yes/no</span>		
<b>E.4.2 Available Rams (installed &amp; spare)</b>		
Quantity/type/size: <span style="float: right;">no./type/in</span>		
Quantity/type/size: <span style="float: right;">no./type/in</span>		
Quantity/type/size: <span style="float: right;">no./type/in</span>		
Quantity/type/size: <span style="float: right;">no./type/in</span>		
Quantity/type/size: <span style="float: right;">no./type/in</span>		
Quantity/type/size: <span style="float: right;">no./type/in</span>		
Quantity/type/size: <span style="float: right;">no./type/in</span>		
Quantity/type/size: <span style="float: right;">no./type/in</span>		
Quantity/type/size: <span style="float: right;">no./type/in</span>		
<b>E.4.3 BOP Ram Configuration (normal)</b>		
Upper:		
Upper middle:		
Middle:		
Middle lower:		
Lower:		
<b>E.4.6 Choke Line Valves</b>		
Quantity: <span style="float: right;">no.</span>		
Make/type:		
Size: <span style="float: right;">in</span>		
Working pressure: <span style="float: right;">psi</span>		
Gasket type:		
Hydraulic/manual:		
Quantity: <span style="float: right;">no.</span>		
Make/type:		
Size: <span style="float: right;">in</span>		
Working pressure: <span style="float: right;">psi</span>		
Gasket type:		
Hydraulic/manual:		
<b>E.5 BOP CONTROL SYSTEM</b>		
<b>E.5.1 Accumulator Unit</b>		
Make/model:	Koomey/MB 160-20 Type80	Koomey/MB 160-20 Type 80
Location:	S/B Main Deck Aft	S/B Main Deck Aft
Fluid reservoir capacity: <span style="float: right;">gal</span>	480	480
Oil/water mix. rate: <span style="float: right;">gals/min</span>	Enviro-rite Fluid	Enviro-rite Fluid
Glycol reservoir capacity: <span style="float: right;">gal</span>		
Total accumulator capacity (w/o precharge): <span style="float: right;">gal</span>	220 gal	220 gal
System working pressure: <span style="float: right;">psi</span>	3000 psi	3000 psi
Control manifold model:	UD 2RB-7AR	UD 2RB-7AR
Regulator type:	Manual and Pneumatic	Manual and Pneumatic

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
Total useful accumulator volume equals all preventer opening and closing volumes: yes/no plus percent additional volume: %	Yes  50%	Yes  50
<b>E.5.2 Accumulator Hydraulic Pumps</b>		
Electric Driven: Quantity: no. Make/model: Each driven by motor of power: hp Flow rate of each pump: gals/min At operating pressure: psi Operable off emergency generator: yes/no	1 ea. Koomey / TRIPLEX 20 hp 8.7 gal/min 3,000 psi Yes	1 ea Koomey triplex/ UET-20B 20 hp 8.7 gals/min. 3000 psi Yes
Air Driven: Quantity: no. Make/model: Flow rate of each pump: gals/min AT operating pressure: psi	2 ea. Koomey / 60 : 1 RATIO 6.4 gal/min 90 psi	2 ea Koomey / Big Sixty 60:1 6 gpm 100 psi
<b>E.5.3 Primary Control Panel</b>		
Control panel make/model: Location: Panel controls for the following functions:	Koomey On S/B main deck	Koomey On S/B Main deck Aft.
All annular BOP's: yes/no All ram BOP's: yes/no Lock for ram BOP's: yes/no Diverter system: yes/no Kill and choke line valves: yes/no Low accumulator pressure warning: yes/no Low reservoir level warning: yes/no Low rig air pressure warning: yes/no System pressure regulator: yes/no Pressure regulator for annular: yes/no Flow meter: yes/no Quantity of pressure gauges: no. Other control functions: yes/no	Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes Yes No 4	Yes Yes No Yes Yes No Yes Yes Yes Yes No 4
<b>E.5.4 Remote Control Panels</b>		
Make/model: Location: Location: Location: Ability to operate main closing unit: valves directly: yes/no System routing (direct or through panel): Remote control of - system pressure regulator: yes/no Remote control of - annular pressure regulator: yes/no	KOOMEY / Driller's Shelter Main deck	KOOMEY / Pneumatic Driller's Shelter Main Deck S/B forward
Yes     Yes  Yes  Yes	Yes     Yes  Yes	yes     yes  yes
<b>E.6 CHOKE MANIFOLD</b>		
All appropriate components H2S rated yes/no	Yes	yes

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
<b>E.6.1 Choke Manifold (for instrumentation, See H.3)</b>		
Nominal size: in	3 1/8	3 1/8
Minimum ID: in	2-1/16	
Maximum WP: psi	10,000 psi	10,000 psi
Quantity of fixed chokes: no.		
Make/model:		
Size: in		
Make/model:		
Size: in		
Quantity of adjustable chokes: no.		
Make/model:		
Size: in		
Make/model:		
Size (ID): in		
Quantity	5 ea.Valves 10k psi	5ea Valves 10K psi
Make/model:	Cameron / Manual	Cameron / Manual
Size (ID): in	2-1/16 in	2-1/16"
Make/model:	2ea valves 10k psi	2ea valves 10k psi
Size (ID): in	4 1/16	4 1/16
Quantity	6 ea.Valves 10k psi	6 ea.Valves 10k psi
Make/model:	Cameron / Manual	Cameron / Manual
Size (ID): in	3-1/16 in	3-1/16 in
Quantity	5ea valves 10 k psi	5ea valves 10 k psi
Make/model:	Cameron / Manual	Cameron / Manual
Size (ID): in	3 1/8	3 1/8
Power choke remote control panel: yes/no	yes	yes
Make/model:	Cameron super choke	Cameron super choke
Location:	RIG FLOOR	Rig floor
Glycol injection: yes/no	No	No
<b>E.7 FLEXIBLE CHOKE &amp; KILL LINES (BOP to MANIFOLD)</b>		
Quantity: no.	2ea.Choke Line	2 ea Choke line
Make/type:	Rubber Wire Braided	/ rubber wire braided
ID: in	3 in	3"
Working pressure: psi	10,000 psi	10,000psi
H2S service: yes/no	Yes	yes
Quantity: no.	2 ea. Kill Line	2 ea Kill line
Make/type:	Rubber Wire Braided	/ rubber wire braided
ID: in	2 in	2"
Working pressure: psi	10,000 psi	10,000 psi
H2S service: yes/no	Yes	yes

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
<b>E.8 FLEXIBLE BOP CONTROL HOSES</b>		
Quantity: no.	12 ea.	12 ea.
Make/type:	Armored steel	Armored steel
ID: in	1 in	1 in
Working pressure: psi	3,000 psi	3,000 psi
Fire resistant: yes/no	Yes	Yes
Quantity: no.		
Make/type:		
ID: in		
Working pressure: psi		
Fire resistant: yes/no		
<b>E.9 BOP TESTING EQUIPMENT</b>		
<b>E.9.1 Hydraulic BOP Test Pump</b>		
Make/model:	CAD / 15K	CAD / 15K
Type:	Air operated	Air operated
Pressure rating: psi	15,000 psi	15,000 psi
Chart recorder: yes/no	Yes	Yes
<b>E.9.2 BOP Test Stump</b>		
Size: in		NO
Size: in		
Size: in		
<b>E.10 BOP HANDLING</b>		
	yes	Yes
<b>E.10.1 BOP Hoist System</b>		
Make/type:	Ingersoll-Rand/ Hercu-link	Ingersoll-Rand/ Hercu-link
Quantity of hoists: no.	2 ea	2 ea
Number of lift point on BOP: no.	2	2
System safe working load (max BOP wt): st	37.5 ton each unit	37.5 ton each unit
<b>E.10.2 Work Platforms</b>		
BOP work platform (adjustable/fixed/none):	Texas Deck	Texas Deck
Conductor pipe platform: yes/no	None	None
<b>E.10.3 Conductor Pipe Tensioning System</b>		
Make/type:		
Tension capacity: st		
Number of lift points: no.		
Stroke: in		
<b>F. MUD SYSTEM/BULK SYSTEM</b>		
<b>F.1 HIGH PRESSURE MUD SYSTEM</b>		
System working pressure: psi	5000	5,000
System test pressure: psi	7,500	7,500
<b>F.1.1 Mud Pumps</b>		

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
Quantity: no. Make: Model: Type: (Triplex/Duplex): Liner sizes available: in Mud pump drive motors/pump: no. Motor type: Continuous power rating per motor: hp Fluid end type: Maximum working pressure: psi Test pressure: psi Pump stroke counter type: Supercharging pump: Driven by motor of power: hp Discharge/Suction line ID: in/in Mud pump pulsation dampener type: Reset Relief Valve type: Working flow rate per pump at 90% of max spm: Liner size: in Pump speed (90% of max.): spm Pump pressure: psi Working flow rate: U.S. gal/min	2 ea  Triplex 5 1/2", 6", 6-1/2", 7" 2  750 hp  5000 psi 7,500 psi. Magnetic switch noncontact Yes 40 hp 4"/ 4"  Hydril Retsco type C	2 ea Continental Emsco FB 1600 Triplex 5-1/2",6",6-1/2" ,7" 2 EMD D79 MB6 750 hp  5000 psi 7,500 psi. Magnetic switch non contact Yes 40 hp 4"/ 4"  Hydril Retsco type C
Quantity: no. Make: Model: Type: (Triplex/Duplex): Liner sizes available: in Mud pump drive motors/pump: no. Motor type: Continuous power rating per motor: hp Fluid end type: Maximum working pressure: psi Test pressure: psi Pump stroke counter type: Supercharging pump: Driven by motor of power: hp Discharge/Suction line ID: in/in Mud pump. pulsation dampener type: Reset relief valve type: Working flow rate per pump at 90% of max spm: Liner size: in Pump speed (90% of max.): spm Pump pressure: psi Working flow rate: U.S. gal/min		
<b>F.1.2 Transfer Pumps/Mixing Pumps</b>		
Mixing / Transfer Pumps Quantity: no. Make/model: Type/Size Output Capacity: gpm Drive motor type: Power output: hp	2 ea Halco Centrifugal/ 6X8X14 1200 Electric 75 hp	2 ea Halco Centrifugal/ 6X8X14 1200 Electric 75 hp
Gel Tank Pumps		

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
Quantity: no. Make/model: Type/size: Output capacity: gpm Drive motor type: Power output: hp		
<b>F.1.3 Booster / Charging Pump</b>		
Quantity: no. Make/Mode: Type/Size Capacity (each): gals/min Drive motor type: Power output: hp	2 ea Halco Centrifugal / 4X6X14 1200 Electric 40 hp	2 ea Halco Centrifugal / 4X6X14 1200 Electric 40 hp
<b>F.1.4 Standpipe Manifold</b>	Yes	
Quantity of standpipes: no. Standpipe/ID: in H-Type standpipe manifold: yes/no Kill line outlet: yes/no Fill-up line outlet: yes/no Bleed-off line outlet: yes/no	2 ea. 4" ID / 3 " ID /2" ID Yes Yes Yes Yes	2 ea 4" ID / 3 " ID /2" ID yes yes yes yes
<b>F. 1.5 Rotary Hoses</b>	Yes	Yes
Quantity: no. Make/type: ID x length: in x ft Working pressure: psi Snubbing lines: yes/no	2 ea. Cooper States/Gates 3 ½ in X 75 ft 5000psi W/Px 10000psi T/P Yes	2 ea. Cooper States/Gates 3 ½ in X 75 ft 5000psi W/Px 10000psi T/P yes
Quantity: no. Make/type: ID x length: in x ft Working pressure: psi Snubbing lines: yes/no	2ea Cooper States 3 ½ inX65ft 5000psi W/Px 10000psi T/P Yes	2ea Cooper States 3 ½ inX65ft 5000psi W/Px 10000psi T/P Yes
<b>F.1.6 Cementing Hose</b>	Yes	Yes
Quantity: no. Type (armor sheath/flexible steel pipe): Length: ft ID: in Working pressure: psi	2 ea. Cooper States 65 ft 3 in 7500 psi W/P x15,000 psiT/P	2ea. Cooper States 65 ft 3" 7500 psi W/P x15,000 psiT/P
Quantity: no. Type (armor sheath/flexible steel pipe): Length: ft ID: in Working pressure: psi	1ea 50ft 2 ½ in 10000psi	1ea 50ft 2 ½ in 10000psi
<b>F.1.7 High Pressure Flexible Steel Pipe</b>		
Make/type: Integral connections/fittings (non-threaded): yes/no ID: in	Yes	Anson yes 1 ¾"

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
Working pressure: psi	10,000 psi	10,000 psi
Section length: ft	2 ea 6'	2 ea 6'
Quantity: no.	6 ea 12'	6 ea 12'
Section length: ft	2 ea 10'	2 ea 10'
Quantity: no.		
Sweep swivels, make/type:	2" weco fig 1502	2" Anson
Nom. size ID: in		
Suitable for H2S service: yes/no	Yes	yes
<b>F.2 LOW PRESSURE MUD SYSTEM</b>		
<b>F.2.1 Mud Processing Tank</b>		
	Yes	Total 252 bbl
Shaker #1 tank, usable volume: bbl	88 bbl	88 bbl
Shaker #2 tank, usable volume: bbl	88 bbl	88 bbl
Agitated: yes/no	No	No
Shaker #3 tank, usable volume: bbl		
Agitated: yes/no	No	
Shaker #4 tank, usable volume: bbl		
Agitated: yes/no	No	
Shaker #5 tank, usable volume: bbl		
Agitated: yes/no	No	
Centrifuge tank, usable volume: bbl		
Agitated: yes/no	No	
Other tank, usable volume: bbl		
Agitated: yes/no	No	
Total usable capacity:		
<b>F.2.2 Mud Tanks</b>		
	Yes	
Quantity: no.	4	4
Total capacity (usable): bbl	1,549 bbl	1,549 bbl
Usable capacity No. 1: bbl	565 bbl	565 bbl
Type (active/reserve):		
Height: ft	8 ft	8 ft
Mixer: yes/no	Yes	Yes
Mud guns: yes/no	Yes	Yes
Usable capacity No. 2: bbl	315 bbl	315 bbl
Type (active/reserve):		
Height: ft	8 ft	8 ft
Mixer: yes/no	Yes	Yes
Mud guns: yes/no	Yes	Yes
Usable capacity No. 3: bbl	565 bbl	565 bbl
Type (active/reserve):		
Height: ft	8 ft	8 ft
Mixer: yes/no	Yes	Yes
Mud guns: yes/no	Yes	Yes
Usable capacity No. 4: bbl	104	104
Type (active/reserve):		
Height: ft	8 ft	8 ft
Mixer: yes/no	Yes	Yes
Mud guns: yes/no	Yes	Yes
Usable capacity No. 5: bbl	104	104
Type (active/reserve):		
Height: ft		
Mixer: yes/no		
Mud guns: yes/no		
Usable capacity No. 6: bbl		

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
Type (active/reserve):		
Height: ft		
Mixer: yes/no		
Mud guns: yes/no		
Usable capacity No. 7: bbl		
Type (active/reserve):		
Height: ft		
Mixer: yes/no		
Mud guns: yes/no		
Usable capacity No. 8: bbl		
Type (active/reserve):		
Height: ft		
Mixer: yes/no		
Mud guns: yes/no		
<b>F.2.3 Pill/Slug Tank</b>		
Capacity (usable): bbl	104 bbl	104 bbl
Mud agitator: yes/no	Yes	Yes
Mud guns: yes/no	Yes	Yes
Capacity (usable): bbl		
Mud agitator: yes/no		
Mud guns: yes/no		
<b>F.2.4 Trip/Stripping Tanks</b>	Trip tank	
Capacity (usable): bbl	72 bbl	72 bbl
Capacity/foot: bbl/ft		
Level indicator: yes/no	Yes	Yes
Electric pump make: Mission	Mission	Mission
Model/type: 3 x 2 x 7.5"	3 x 2 x 7.5"	3 x 2 x 7.5"
Rated capacity: hp	10 hp 1735 rpm	10 hp 1735 rpm
Facility for casing fill-up: yes/no	Yes	Yes
Alarm and strip chart recorder: yes/no	Yes	Yes
Capacity (usable): bbl		
Capacity/foot: bbl/ft		
Level indicator: yes/no		
Electric pump make:		
Model/type:		
Rated capacity: hp		
Facility for casing fill-up: yes/no		
Alarm and strip chart recorder: yes/no		
<b>F.2.5 Chemical Mixing Tank</b>		
Capacity (usable): bbl	0.84	0.84
Chemical mixer type:	Manual	Manual
<b>F.2.6 Shale Shakers</b>		
Primary:		
Quantity: no.	3 each ADOC	3 each ADOC
Make/model: Swaco	Swaco	Swaco
Type: Single unit	Single unit	Single unit
Nominal flow rate (total): bbl/min	1200	1200
Quantity: no.		



## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
Size: in		
Feed pump make/model:		
Type/size:		
Capacity: gpm		
Drive motor hp: hp		
Is pump dedicated to mud cleaner: yes/no		
<b>F.2.10 Mud/Gas Separator (Poor Boy)</b>	Yes	
Make/type:		Contech/ Baffle plate
Dimensions (height x OD): ft x in	20ft x 5ft	20ftx5ft
Gas discharge line ID: in	8"	8"
Gas discharge location, primary:	Top of derrick	Top of derrick
Can discharge be tied into burner system: yes/no	Yes	
Vacuum breaker: yes/no	Yes	
Mud seal height: ft	10 ft	
Pressure gauge: yes/no	Yes	
Make/type:		
Dimensions (height x OD): ft x in		
Gas discharge line ID: in		
Gas discharge location, primary:		
Can discharge be tied into burner system: yes/no		
Vacuum breaker: yes/no		
Mud seal height: ft		
Pressure gauge: yes/no		
Calculated gas throughput: mmscf		
<b>F.2.11 Degasser</b>		
Make/type:	Contech/ vacuum	Contech/ vacuum
Nominal flow rate: bbl/min	25 bbl	25 bbl
Feed pump make/model:	Mission / 6 X 5	Mission / 6 X 5
Type/size:	Centrifugal 6X5X14	Centrifugal 6X5X14
Capacity: gpm	1200 gpm	1200 gpm
Drive motor hp: hp	100	100
Is pump dedicated to degasser: yes/no	Yes	Yes
Vacuum pump make type:	Ingersoll-Rand/ reciprocating	Ingersoll-Rand/ reciprocating
Make/type:		
Nominal flow rate: bbl/min		
Feed pump make/model:		
Type/size:		
Capacity: gpm		
Drive motor hp: hp		
Is pump dedicated to degasser: yes/no		
Vacuum pump make type:		
<b>F.2.12 Mud Agitators</b>	Yes	
Quantity: no.	4 ea	4 ea
Make/model:	Brandt/ MA20	Brandt/ MA20
Driven by motor of power: hp	20HP	20HP
Located in tanks:	1 & 3	1 & 3
Quantity: no.	1 ea	1 ea
Make/model:	Brandt MA5	Brandt MA5
Driven by motor of power: hp	5HP	5HP

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
Located in tanks: (see F.2.1 and F.2.2 for tank designations)	Slug pit	Slug pit
Quantity: no. Make/model: Driven by motor of power: hp Located in tanks: (see F.2.1 and F.2.2 for tank designations)	1 each Brandt/ MA25 25 hp 2	1 each Brandt/ MA25 25 hp 2
Quantity: no. Make/model: Driven by motor of power: hp Located in tanks: (see F.2.1 and F.2.2 for tank designations)		
<b>F.2.13 Mud Centrifuge</b>	No	
Quantity: no. Make/model: Feed pump make/model: Type/size: Capacity: bbl/min Drive motor hp: hp Is feed pump dedicated to centrifuge(s) yes/no		Swaco Third party
Quantity: no. Make/model: Feed pump make/model: Type/size: Capacity: bbl/min Drive motor hp: hp Is feed pump dedicated to centrifuge(s) yes/no		
<b>F.2.14 Mud Laboratory And Facilities</b>		
Separate room: yes/no Equipped with: Mud balance: yes/no Marsh funnel: yes/no Filtration kit: yes/no Sand content kit: yes/no Air Conditioning: yes/no Positive pressure: yes/no	Yes YES YES Yes YES Yes Yes	Yes Yes Yes Yes Yes Yes Yes
<b>F.3 BULK SYSTEM</b>		
<b>F.3.1 Barite/Bentonite Silos</b>	Yes	yes
Quantity: no. Capacity of each silo: ft3 Locations: Type weight loadcell: Manufacturer: Pressure rating: psi Relief valve(s) installed: yes/no	1333 ft3 ( 4000 ft3 total ) S/B side Main deck Yes Martin Decker 40 Yes	3 ea 1333 ft3 ( 4000 ft3 total ) S/B side Main deck Yes Martin Decker 40 Yes
Quantity: no. Capacity of each silo: ft3 Locations:		





## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
Quantity: no. For OD casing: in Make/type: Capacity: st	1 ea 7" Varco BJ / SLX 150T	1 ea 7" Varco BJ / SLX 150T
Quantity: no. For OD casing: in Make/type: Capacity: st		
Quantity: no. For OD casing: in Make/type: Capacity: st		
<b>G.1.5 Single Joint Casing Elevators</b>	<b>Yes</b>	
Quantity: no. For OD casing: in Make/type:	1 ea. 20" Varco / SJ	1 ea. 20" Varco / SJ
Quantity: no. For OD casing: in Make/type:	1 ea 13-3/8 in VARCO / SJ	1 ea 13-3/8 in VARCO / SJ
Quantity: no. For OD casing: in Make/type:	1 ea 9-5/8 in Varco / SJ	1 ea 9-5/8 in Varco / SJ
Quantity: no. For OD casing: in Make/type:	1 ea 7" Varco / SJ	1 ea 7" Varco / SJ
Quantity: no. For OD casing: in Make/type:		
Quantity: no. For OD casing: in Make/type:		
<b>G.1.6 Slip Type Elevator/Spiders</b>		
Quantity: no. Make/type: Pneumatic/manual: Capacity: st Slips for OD casing sizes: in	1 Varco Pneumatic 350 13-3/8"	1 Varco Pneumatic 350 13-3/8"
Quantity: no. Make/type: Pneumatic/manual: Capacity: st Slips for OD casing sizes: in	Varco 350T Pneumatic 350 9-5/8"	Varco 350T Pneumatic 350 9-5/8"
Quantity: no. Make/type: Pneumatic/manual:	Varco 350T Pneumatic	Varco 350T Pneumatic

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
Capacity: st Slips for OD casing sizes: in	350 7" / 7-5/8"	350 7" / 7-5/8"
<b>G.1.7 Casing Slips</b>		
Quantity: no. Make/type: For OD casing: in	1 ea Varco BJ / CMS-XL 20"	1 ea Varco BJ / CMS-XL 20"
Quantity: no. Make/type: For OD casing: in	1ea Varco BJ / CMS-XL 13 3/8"	1ea Varco BJ / CMS-XL 13 3/8"
Quantity: no. Make/type: For OD casing: in	1 ea Varco BJ / CMS-XL 9 5/8"	1 ea Varco BJ / CMS-XL 9 5/8"
Quantity: no. Make/type: For OD casing: in	1 ea Varco BJ / CMS-XL 7" and 7-5/8"	1 ea Varco BJ / CMS-XL 7" and 7-5/8"
<b>G.1.8 Casing Bowls</b>		
Quantity: no. Make/type: For OD casing (max/min): in/in	1 ea Varco 20"	1 ea Varco 20"
Quantity: no. Make/type: For OD casing (max/min): in/in	1 ea Varco 11 3/4" – 13 3/8"	1 ea Varco 11 3/4" – 13 3/8"
Quantity: no. Make/type: For OD casing (max/min): in/in	1 ea Varco 9 5/8" – 10 3/4"	1 ea Varco 9 5/8" – 10 3/4"
Quantity: no. Make/type: For OD casing (max/min): in/in	1 ea Varco 2 3/8" – 8 5/8"	1 ea Varco 2 3/8" – 8 5/8"
<b>G.1.9 Manual Casing Tong</b>		
Quantity (sets): no. Make/type: W/jaws for OD casing (max/min): in/in	2 ea Web Wilson/ AXX 7" – 20"	2 ea Web Wilson/ AXX 7" – 20"
Quantity (sets): no. Make/type: W/jaws for OD casing (max/min): in/in		
Quantity (sets): no. Make/type: W/jaws for OD casing (max/min): in/in		
Quantity (sets): no. Make/type: W/jaws for OD casing (max/min): in/in		
<b>G.1.10 Power Casing Tong</b>		
	NO	

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
Quantity: no. Make/type: W/jaws for OD casing (max/min): in/in Max output torque: ft-lbs Torque indicator: yes/no Back-up arm: yes/no  Quantity: no. Make/type: W/jaws for OD casing (max/min): in/in Max output torque: ft-lbs Torque indicator: yes/no Back-up arm: yes/no		
<b>G.1.11 Power Unit For Casing &amp; Tubing Tongs</b>	No	
Quantity: no. Make/type: Capacity (ea.): gpm Output pressure: psi Dedicated unit: yes/no		1 each Weatherford lamb 25 gpm 3000 psi max yes
<b>G.1.12 Casing Circulating Head (Swedge)</b>		
For OD casing: psi Connection type: top/bottom  For OD casing: psi Connection type: top/bottom  For OD casing: psi Connection type: top/bottom  For OD casing: psi Connection type: top/bottom	No	
<b>G.1.13 Casing Spears (Internal)</b>		
Quantity: no. Make/type: For OD casing: in For casing weight: lbs/ft Pack-off: yes/no  Quantity: no. Make/type: For OD casing: in For casing weight: lbs/ft Pack-off: yes/no  Quantity: no. Make/type: For OD casing: in For casing weight: lbs/ft Pack-off: yes/no		No
<b>G.1.14 Casing Cutters (Internal)</b>	No	

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
Quantity: no. Make/type: For OD casing (max/min): in/in		No
Quantity: no. Make/type: For OD casing (max/min): in/in		
Quantity: no. Make/type: For OD casing (max/min): in/in		
<b>G.1.15 Crossover to Handle Casing with Drill Pipe</b>	No	
Quantity: no. For OD casing: in Casing connection type: Drill pipe connection type: Rated capacity: st		No
Quantity: no. For OD casing: in Casing connection type: Drill pipe connection type: Rated capacity: st		
Quantity: no. For OD casing: in Casing connection type: Drill pipe connection type: Rated capacity: st		
<b>G.1.16 Casing Scrapers</b>	No	
Quantity: no. Make: For OD casing: in For casing weight: lbs/ft OD body: in Connection type: Blade type (roller/fixed)		No ADOC scrapers.
Quantity: no. Make: For OD casing: in For casing weight: lbs/ft OD body: in Connection type: Blade type (roller/fixed)		
Make: For OD casing: in For casing weight: lbs/ft OD body: in Connection type: Blade type (roller/fixed)		
Make:		

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
For OD casing: in For casing weight: lbs/ft OD body: in Connection type: Blade type (roller/fixed)		
<b>G.2 CEMENTING EQUIPMENT</b>		
<b>G.2.1 Cement Unit</b>		
Owner:	THIRD PARTY	Dowell Schlumberger
Free placement basis: yes/no	yes	yes
Make/type:		
No. of triplex pumps: no.		
Maximum working pressure: psi	10000 psi	
Maximum flow rate (total): bbl/min		
Unit power by (electric/diesel):		
Re-circulating mixing system: yes/no		
Capacity: bbl		
Motor power: hp		
Liquid additive system: yes/no	yes	
Premix/batch tank: gal/min		
Quantity: no.	2	
Capacity (total): bbl	100	
Pressure recorder: yes/no	yes	
Densionmeter recording device: yes/no	yes	
<b>G.2.2 Cementing Manifold</b>		
	Yes	Yes
Discharge manifold working pressure: psi	10,000 psi	10,000 psi
Cement pump discharge lines min. ID: in	2 in / 3 in	2"
Cement pump discharge lines working pressure: psi	10,000 psi	10,000 psi
Manifold safety pressure relief valve: yes/no	yes	Yes
<b>G.2.3 Cementing Standpipe</b>		
	Yes	Yes
Quantity: no.	1 ea.	1 ea.
Working pressure: psi	5000 psi	5000 psi
ID: in	2 in	2 in
Connection to choke manifold: psi	No	No
Connection to standpipe manifold: yes/no	Fixed or Chicksan Jumper	
<b>G.2.4 Cementing Kelly</b>		
	No	No
Quantity: no.		
Nominal size OD: in		
Total length: ft		
Working length: ft		
Connection type:		
Cement head: yes/no		
Quantity: no.		
Nominal size OD: in		
Total length: ft		
Working length: ft		
Connection type:		
Cement head: yes/no		

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
<b>G.2.5 Cementing Tubing</b>		
Size: in		
Length (total): ft		
X-overs to drillpipe (specified in section D.1.3): yes/no		
<b>H. INSTRUMENTATION/COMMUNICATION</b>		
<b>H.1 DRILLING INSTRUMENTATION AT DRILLER'S POSITION</b>		
<b>H.1.1. Weight Indicator</b>		
Make/Type:	Yes Driller's Display MD Totco ( Rig Sense)	Yes Driller's Display MD Totco ( Rig Sense)
Sensor type:		
<b>H.1.2 Standpipe Pressure Gauges</b>		
Quantity: no.	Yes 1 each	Yes 1 each
Make/type:	Driller's Display MD-Totco (Rig Sense)	Driller's Display MD-Totco (Rig Sense)
Maximum pressure reading: psi	5000 psi	5000 psi
Quantity: no.	1 each	1 each
Make/type:	Martin Decker / analog	Martin Decker / analog
Maximum pressure reading: psi	6000 psi	6000 psi
Quantity: no.	1	1
Make/type:	J-2 Transmitter	J-2 Transmitter
Maximum pressure reading: psi	6000 psi	6000 psi
<b>H.1.3 Choke Manifold Pressure Gauges</b>		
Quantity: no.	yes 1	Yes 1
Make/type:	Driller's Display MD-Totco (Rig Sense)	Driller's Display MD-Totco (Rig Sense)
Maximum pressure reading: psi	10000 psi	10000 psi
Quantity: no.	1 each	1 each
Make/type:	Cameron/ J2 transmitter	Cameron/ J2 transmitter
Maximum pressure reading: psi	10000 psi	10000 psi
<b>H.1.4 Rotary Instrumentation</b>		
<b>H.1.4.1 Tachometer</b>		
Make/type:	Yes Driller's Display MD-Totco (Rig Sense)	Yes Driller's Display MD-Totco (Rig Sense)
Maximum RPM: rpm		
<b>H.1.4.2 Torque Indicator</b>		
Make/type:	Yes Driller's Display MD-Totco (Rig Sense)	Yes Driller's Display MD-Totco (Rig Sense)
Maximum torque: ft-lbs		
<b>H.1.5 Top Drive Instrumentation</b>		

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
<b>H.1.5.1 Tachometer</b>	Yes	Yes
Make/type:	Driller's Display MD-Totco (Rig Sense)	Driller's Display MD-Totco (Rig Sense)
Maximum RPM: rpm		
<b>H.1.5.2 Torque Indicator</b>	yes	Yes
Make/type:	Driller's Display MD-Totco (Rig Sense)	Driller's Display MD-Totco (Rig Sense)
Maximum torque: ft-lbs		
<b>H.1.6 Pump Stroke Counters</b>	Yes	Yes
Quantity: no.	2	2
Make/type:	1 ea Driller's Display MD-Totco (Rig Sense) 1 ea. Electro Flow Stroke Counter	1 ea Driller's Display MD-Totco (Rig Sense) 1 ea. Electro Flow Stroke Counter
Stroke indicator and cumulative stroke counter for each pump: yes/no	Yes	Yes
<b>H.1.7 Tong Torque Indicator</b>	Yes	Yes
Make/type	Driller's Display MD-Totco (Rig Sense)	Driller's Display MD-Totco (Rig Sense)
Maximum torque: ft-lbs		
<b>H.1.8 Pit Volume Totalizer</b>	Yes	Yes
Make/model:	Driller's Display MD-Totco (Rig Sense)	Driller's Display MD-Totco (Rig Sense)
Float in active mud tanks: yes/no	Yes (Ultra-sonic sensor)	Yes (Ultra-sonic sensor)
Quantity per tank: no.	1	1
Floats in reserve mud tanks: yes/no	Yes (Ultra-sonic sensor)	Yes (Ultra-sonic sensor)
Quantity per tank: no.	1	1
Floats in mud processing tanks: yes/no	Slug Pit	Slug Pit
Quantity per tank: no.	1	1
Loss/Gain indicator: yes/no	Yes (Driller's Display MD-Totco (Rig Sense))	Yes (Driller's Display MD-Totco (Rig Sense))
Audio Alarm: yes/no	Yes	Yes
Visual Alarm: yes/no	Yes	Yes
<b>H.1.9 Mud Flow Indicator</b>	Yes	Yes
Make/model:	Driller's Display MD-Totco (Rig Sense)	Driller's Display MD-Totco (Rig Sense)
High/low alarm:		
Audio Alarm: yes/no	Yes	Yes
Visual Alarm: yes/no	Yes	Yes
Sensor location:	Mud Return line ( to Shale Shaker)	Mud Return line ( to Shale Shaker)
<b>H.1.10 Trip Tank Indicator</b>	Yes	Yes
Make/model:	Driller's Display MD-Totco (Rig Sense)	Driller's Display MD-Totco (Rig Sense)

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
Chart recorder: yes/no	Yes	Yes
Alarm: yes/no	Yes	Yes
Make/model:		
Chart recorder: yes/no		
Alarm: yes/no		
<b>H.1.11 Automatic Driller (see B.2.1)</b>	No	No
<b>H.1.12 Remote Choke Control Unit (see E.5)</b>	Yes	Yes
<b>H.1.13 Crown Clearance Indicator</b>	Yes	
Make/type: yes/no	No	No
<b>H.2 DRILLING PARAMETER RECORDER</b>	Yes	Yes
Quantity: no.	No	No
Make/type:		Driller's Display MD-Totco
Location - 1:		
Type (display/recorder/both):		
Location - 2:		
Type (display/recorder/both):		
Location - 3:		
Type (display/recorder/both):		
Number of parameters recorded: no.		
Parameter recorded:		
Parameter recorded:		
Parameter recorded:		
Parameter recorded:		
Parameter recorded:		
Parameter recorded:		
Parameter recorded:		
<b>H.3 INSTRUMENTATION AT CHOKE MANIFOLD</b>		
<b>H.3.1 Standpipe Pressure Gauge (Drill pipe pressure gauge)</b>	Yes	Yes
Quantity: no.	1	1
Make/type:	Driller's Display MD-Totco (Rig Sense)	Driller's Display MD-Totco (Rig Sense)
Pressure range (maximum): psi	5000psi	5000psi
Quantity: no.	1	1
Make/type:	Martin Decker/ vernier	Martin Decker/ vernier
Pressure range (maximum): psi	6000psi	6000psi
Visible from choke operating position: yes/no	Yes	Yes
<b>H.3.2 Choke Manifold Pressure Gauge (Casing pressure gauge)</b>	Yes	Yes
Quantity: no.	1	1
Make/type:	Cameron/ JT transmitter	Cameron/ JT transmitter
Pressure gauge: psi/psi	10,000 psi	10,000 psi
Quantity: no.	1 each	1 each



## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
<b>H.6.2 Public Address System</b>		
Can be combined with H.6.1 above:      yes/no	Yes	Yes
No. of stations:                                      no.	34	34
Make/type:	TOA / VP 1120-A	<b>Gaitronics</b>
Explosion proof:                                      yes/no	Mud Pit / Mud Pump Room/shale shaker/ rig floor	Mud Pit / Mud Pump Room/shale shaker/ rig floor
<b>H.6.3 Drill Floor Talkback System</b>		
No. of stations:                                      no.	No	<b>2</b>
Location:		Monkey Board
Location:		Drillers Console
Location:		
Location:		
Make/type:		<b>Atkinson Dynamics</b>
Explosion-proof:                                      yes/no		Yes
<b>H.6.4 Hand Held Vhf Radios</b>		
	Yes	
Quantity:    no.	6	10
Quantity intrinsically safe:                      no.	6	10
<b>H.6.5 Crane Communication System</b>		
Quantity:    no.	3	<b>1 Port side crane</b>
Make/type:		<b>Panasonic telephone</b>
Explosion proof:                                      yes/no	yes	No
Part of rig telephone system (H.6.1):      yes/no	yes	Yes
Part of public address system (H.6.2):      yes/no	yes	Yes
Quantity:    no.	2 VHF radios ( port and st.bd. crane)	2 VHF radios ( port and st.bd. crane)
Make/type:	I COM	I COM
Explosion proof:                                      yes/no	No	No
<b>H.7 ENVIRONMENTAL INSTRUMENTATION</b>		
<b>H.7.1. Temperature Indicators</b>		
Air temperature (make/model):		<b>Yes, furuno/ Rd 30</b>
Recorder:    yes/no		NO
Sea water temperature (make/model):      yes/no		
Recorder:		No
<b>H.7.2 Barometric Pressure Indicator</b>		
	yes	
Make/model:		
Recorder:    yes/no		No
<b>H.7.3 Humidity Sensing Indicator</b>		
		No
Make/model:		No
Recorder:    yes/no		



## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
Location(s): Quantity: no. Make/model: Power: watts Frequency ranges (low/high): mhz/mhz (Synthesized crystal): Facsimile capable (see also H.9.9): yes/no Telex capable (see also H.9.10): yes/no		
<b>H.9.2 E.P.I.R.B's</b>		
Quantity: no. Make/model: Location(s):		1 JOTRON / TRON-40S Emer Gen room Roof
Quantity: no. Make/model: Location(s):		
<b>H.9.3 Marine VHF Radio</b>		
Quantity: no. Make/model: Power: watt Channels: Location:	2 ea SAILOR / RT 144AC 25 55-2 channels Radio Room	1ea SAILOR / RT 144AC 25 55-2 channels Radio room
Quantity: no. Make/model: Power: watt Channels: Location:		
Quantity: no. Make/model: Power: watt Channels: Location:		
<b>H.9.4 Aircraft Radio Beacon Transmitter (NDB)</b>		
Quantity: no. Make/model: Power: watts	yes  1 Southern Avionics SS800 – 100W	1 Southern Avionics SA100 ac/dc 200 cont.
<b>H.9.5 Aeronautical VHF Transceiver</b>		
Quantity: no. Make/model: Power: watts Frequency range (low/high): mhz/mhz (Synthesized/crystal): Location(s):	1 ea	1ea. PAE  122.800
Quantity: no.		



## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
<p>Connected to:</p> <p><b>I. PRODUCTION TEST EQUIPMENT</b></p> <p><b>I.1 BURNERS</b></p> <p>Make/type:                      Quantity: no.                      Capacity: bbl/day                      Weight: st                      Water requirement at 100 psi: bbl/min</p> <p><b>I.2 BURNER BOOMS</b></p> <p>Make/type:                      Quantity: no.                      Length: ft                      Horizontal: yes/no                      Maximum wind speed: knots                      Walkway and handrails: yes/no                      Burner platform size: ft x ft                      Burner mounting rotatable: yes/no</p> <p><b>I.3 PIPING ON BURNER BOOMS</b></p> <p><b>I.3.1 Oil Line</b></p> <p>ID: in                      Working pressure: psi                      Connection type at burner end:                      H2S: yes/no                      Pressure gauge connection at barge end: in</p> <p><b>I.3.2 Gas Line</b></p> <p>ID: in                      Working pressure: psi                      Extended beyond burner by: ft                      Connection type at burner end:                      H2S: yes/no                      Pressure gauge connection at barge end: in</p> <p><b>I.3.3 Water Line</b></p> <p>ID: in                      Working Pressure: psi                      Connection type at burner end:                      Pressure gauge connection at barge end: in</p> <p><b>I.3.4 Air Line</b></p> <p>ID: in                      Working Pressure: psi                      Connection type at burner end: type                      Pressure gauge connection at barge end: in</p>	<p>No</p> <p>No</p>	<p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p>

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
<b>I.3.5 Pilot Gas line</b>  ID: in Working Pressure: psi Connection type at burner end: type Pressure gauge connection at barge end: in		No
<b>I.4 SPRINKLER SYSTEM</b>  System in place: yes/no Pump source:	yes	Yes Yes Sea water
<b>I.5 FIXED PIPING FOR WELL TESTING</b>  <b>I.5.1 Drill Floor to Separator Area</b>  Type (screwed/welded, both): Quantity: no. Size ID: in Working pressure: psi Connection on drill floor: type Connection at separator: type Number of valves/lines: no. Size of valves: in H2S: yes/no	(sour service oil & gas)	No
<b>I.5.2 Separator Area to Burner Booms</b>  Service (oil/gas): Type (screwed/welded, both): Quantity: no. Size ID: in Working pressure: psi Connection at separator: type Connection at boom: type Number of valves/lines: no. Size of valves: in H2S: yes/no Valves installed near separator area for switching gas to either burner: yes/no		No
Service (oil/gas): Type (screwed/welded, both): Quantity: no. Size ID: in Working pressure: psi Connection at separator: type Connection at boom: type Number of valves/lines: no. Size of valves: in H2S: yes/no Valves installed near separator area for switching gas to either burner: yes/no		No
<b>I.5.3 Water Lines to Burner Booms</b>  Type (screwed/welded/both): Quantity: no. Size ID: in Working pressure: psi	yes	yes

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
Number of valves required: no. Size of valves: in Pump source: Rated line capacity at 300 psi: bbl/hr		
<b>I.5.4 Air System to Burner Booms</b>		
Type (screwed/welded/both): Quantity: no. Size ID: in Working pressure: psi Non-return valves fitted: yes/no Air source:		No
<b>I.5.5 Oil Storage Tank To Offload</b>		
Type (screwed / welded / both): Quantity: no. Size ID: in Working pressure: psi Connection at separator area: type		No
<b>I.5.6 Separator to Vent Stack of Rig</b>		
Type (screwed/welded, both): Quantity: no. Size ID: in Working pressure: psi Connection type at separator area: type		No
<b>I.6 AUXILIARY POWER AVAILABILITY</b>		
<b>I.6.1 For Field Laboratory</b>		
Quantity: no. Volts: volts Frequency: hz Breaker: amp		1 480 60 30
<b>I.6.2 For Crude Transfer Pump</b>		
Quantity: no. Volts: v Frequency: hz Breaker: amp	2 460 60	1 480 60
<b>I.6.3 For Electric Heaters</b>		
Quantity: no. Volts: v Frequency: hz Breaker: amp		
<b>J. WORKOVER TOOLS</b>		
<b>K. ACCOMMODATION</b>		
<b>K.1 OFFICES</b>		

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
<b>K.1.1 Company Representative's Office</b>		
Quantity: no.	one	1
Number of combination office/ State rooms in above: no.	one	1
Complete with desk, filing cabinets(s) and other necessary furniture: yes/no	yes	Yes
Quantity with unrestricted view to drill floor: no.	1	1
<b>K.1.2 Contractor's Representative's Office</b>		
Quantity: no.		1
Quantity: no.		1
<b>Service company room</b>		
Quantity: no.		1
Quantity with unrestricted view to drill floor: no.		1
		1
<b>K.1.4 Radio Room</b>		
Quantity: no.		1
<b>K.1.5 Helicopter Ready Room</b>		
Quantity: no.		No
<b>K.1.6 Hospital Room</b>		
Number of beds/bunks: no.	2	2
Dangerous drugs locker: yes/no	yes	Yes
<b>K.2 LIVING QUARTERS</b>		
<b>K.2.1 Accommodations</b>		
Total Beds: no.	95	90
No. of beds per room type (1,2,3, etc): no.	1	1
Number of rooms: no.	2 (Company man & OIM)	1( Rig Manager, Company man)
Toilets (private/shared/communal):	private	1 Private
Showers (private/shared/communal):	private	1 Private
No. of beds per room type (1,2,3, etc): no.		4
Number of rooms: no.		17
Toilets (private/shared/communal):		Shared
Showers (private/shared/communal):		Shared
No. of beds per room type (1,2,3, etc): no.		2
Number of rooms: no.		11
Toilets (private/shared/communal):		Shared

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
Showers (private/shared/communal):		Shared
No. of beds per room type (1,2,3, etc):      no.		
Number of rooms:                                      no.		
Toilets (private/shared/communal):		
Showers (private/shared/communal):		
No. of beds per room type (1,2,3, etc):      no.		
Number of rooms:                                      no.		
Toilets (private/shared/communal):		
Showers (private/shared/communal):		
No. of beds per room type (1,2,3, etc):      no.		
Number of rooms:                                      no.		
Toilets (private/shared/communal):		
Showers (private/shared/communal):		
No. of beds per room type (1,2,3, etc):      no.		
Number of rooms:                                      no.		
Toilets (private/shared/communal):		
Showers (private/shared/communal):		
<b>K.2.2 Galley</b>		
Quantity:    no.	2 2	2.
Main mess:    no.	1 Senior	1 Senior
Aux. mess:    no.	1 Junior	1 Junior
<b>K.2.3 Mess Seating Capacity</b>		
Quantity:    no.	22 Senior 22 Junior	22 Senior 22 Junior
<b>K.2.5 Recreation Rooms</b>		
Quantity:    no.	2 ea.	2
Recreation facilities		
TV:    no.	1 ea	1
VCR:    no.	1 ea	DVD players
Pool Table:    no.		No
Ping Pong Table:    no.		0
Computer:    no.		2
Workout/weight room:                                      no.		1
Other:		
<b>K.2.6 Other Rooms</b>		
Change rooms:    no.		2
Prayer room:    no.		1
Cinema:    no.		No
Other:		

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
<b>L. SAFETY EQUIPMENT</b>		
<b>L.1 GENERAL SAFETY EQUIPMENT</b>		
<b>L.1.1 General Personnel Protective Gear</b>	Yes	Yes
Safety glasses (contractor/everyone/not supplied):	Contractor	Contractor
Safety hats (contractor/everyone/not supplied):	Contractor	Contractor
Safety boots (contractor/everyone/not supplied):	Contractor	Contractor
Safety clothing (contractor/everyone/not supplied):	Contractor	Contractor
Ear protection (contractor/everyone/not supplied):	Contractor	Contractor
Rubber gloves (contractor/everyone/not supplied):	Contractor	Contractor
Rubber aprons (contractor/everyone/not supplied):	Contractor	Contractor
Rubber gloves - elbow length (contractor/everyone not/supplied):	Contractor	Contractor
Fullface visors (contractor/everyone/not supplied):	Contractor	Contractor
Eye shields (contractor/everyone/not supplied):	Contractor	Contractor
Dust masks (contractor/everyone/not supplied):	Contractor	Contractor
Explosion proof hand torches (contractor/everyone/not supplied):	Contractor	Contractor
Safety belts c/w lines: (contractor/everyone/not supplied):	Contractor	Contractor
 <b>L.1.2.1 Eye Wash Stations</b>	 No	
Quantity - fixed: no.		<b>6</b>
Make/model:		HAWS 7260BT
Location(s):		Rig floor, shaker area, Port main deck, mixing room, pit room
Quantity - portable: no.		1
Make/model:		HAWS 7500
Location(s):		Dowell unit
<b>L.1.2.2 Safety Showers</b>	No	
Quantity: no.		5
Make/model:		HAWS 8300
Location(s):		Rig floor, shaker area, Port main deck, mixing room, pit room
<b>L.1.3 Derrick Safety Equipment</b>		
Derrick escape no.	Yes	<b>NO</b>
Make/type:	DBI/SALA	
Geronimo line: yes/no	yes	
Derrick safety belts: no.	2 ea.	
Make/type:	Lewis/MB-FAH-1	
Derrick safety belts: no.		
Make/type:		

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
<b>L.1.4 Derrick Climbing Assistant</b> Make/type:	LAD-SAF / CARABINERS	LAD-SAF / CARABINERS
<b>L.1.5 Fresh Air Blowers (Bug Blowers)</b> Quantity: no. Make/type: Located at:	2 Bug Blower / Portable	6 + 2(Portable) Various Monkey Board, Rig Floor (2ea), Shale Shaker, Dowell Unit , Pipe Deck Portable units( Welding bench, Sack Room)
<b>L.2 GAS/FIRE/SMOKE DETECTION</b>		
<b>L.2.1 H2S Monitoring System</b> Make/type: Sampling points at:	Detcon Model No. 610AFB	Detcon Model No. 610AFB
Bellnipple: yes/no Drillfloor: yes/no Shale shaker: yes/no Mud tanks: yes/no Ventilation system into living quarters: yes/no Other:	Yes Yes Yes Yes yes Mud Pump Room	Yes Yes Yes Yes Yes Mud Pump Room
Alarms at:		
Driller's console (audible/visual/both): Engine room (audible/visual/both): Mud room (audible/visual/both): Living quarters each level (audible/visual/both): Central area each structural level (audible/visual/both): Other:	both both both audible audible	Both Both Both Audible Both
Tied to general alarm: yes/no Central control panel: yes/no Located at: Local alarm (audible/visual/both):	yes yes both	No Yes Radio Room Audible
<b>L.2.2 Combustible Gas Monitoring System</b> Make/type: Sampling points at:	Detcon / Model 610A FB 6	Detcon / Model 610A FB 6
Bellnipple: yes/no Drillfloor: yes/no Shale shaker: yes/no Mud tanks: yes/no Ventilation system into living quarters: yes/no Other:	Yes Yes Yes Yes Yes	Yes Yes Yes Yes Yes Mud Pump room
Alarms at:		
Driller's console (audible/visual/both): Engine room (audible/visual/both): Mud room (audible/visual/both): Living quarters each level (audible/visual/both): Central area each structural level (audible/visual/both): Other:	Both Both Both Audible Both	Both Both Both Audible Both

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
Tied to general alarm: yes/no	Yes	No
Central control panel: yes/no	Yes	Yes
Located at:	Radio Room	Radio Room
Local alarm (audible/visual/both):	Both	Both
<b>L.2.3 H2S Detectors (Portable)</b>		
Quantity: no.	1	5
Make/type:	BW Technologies	BW Technologies/ LTX310
Quantity: no.		
Make/type:		
Stain types for H2S: measuring range:		
from 1 to 20 percent: %	yes	
from 5 to 60 percent: %	yes	
<b>L.2.4 Explosimeters</b>		
Quantity: no.	1 ea	5
Make/type:		BW Technologies
<b>L.2.5 CO2 Gas Detectors (portable)</b>		
Quantity: no.	2 ea	5
Make/type:		BW Technologies
Stain tubes for CO2: measuring range		
from 1 to 20 percent: %	yes	
from 5 to 60 percent: %		
<b>L.2.6 O2 Meter (portable)</b>		
Quantity: no.		5
Make/type:		BW Technologies
<b>L.2.7 Fire/Smoke Detectors in Accommodation</b>		
Make/type:	Thorn System 880	Thorn System 880
Fire detection: yes/no	Yes	Yes
Smoke detection: yes/no	Yes	Yes
Central control panel: yes/no	Yes	Yes
Location:	Radio Room	Radio Room
Alarms: no.	Yes	Yes
Pull boxes: no.		
Mud room (audible/visual/both):		Both
Living quarters each level (audible/visual/both)	Audible	Audible
Central area structural level: (audible/visual/both):	Audible	Audible
Other:		
Tied to general alarm: yes/no	yes	Yes
Central control panel:		Yes
Located at:		Rig Manager's Office
Local alarm (audible/visual/both):	both	Both
<b>L.3 FIRE FIGHTING EQUIPMENT</b>		
<b>L.3.1 Fire Pumps</b>		
Quantity: no.	2 ea	3

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
Make/model: Type: Output (each):                      gals/min Location:  Quantity:                                      no. Make/model: Type: Output (each):                      gals/min Location:  All off-take points supplied by all pumps:    yes/no	Goulds / 3796 Centrifugal 250 gpm each Aux. pump room	Goulds / 3796 Centrifugal 250 gpm each Aux. pump room
<b>L.3.2 Hydrants And Hoses</b>		
Hydrants positioned such that any point may be reached by a single hose length from two separate hydrants:    yes/no Quantity of hydrants:                      no. Hose connections/hydrant:                      no. Hose. max. diameter:                      in Length:                                      ft	yes  19 1-1/2" , threaded. 1-1/2" 50 ft accomo., 75 ft m/deck	Yes  19 1-1/2" , threaded. 1-1/2" 50 ft accomo., 75 ft m/deck
<b>L.3.3 Portable Fire Extinguishers</b>		
Quantity (total):                      no. Type 1 - CO2                      no./lbs no./lbs  no./lbs no./lbs  Type 2 - Dry chemical                      no.  no./lbs no./lbs no./lbs  Type 3 - Foam                      no. no./lbs  Water                      no./lbs no./lbs no./lbs Halon                      no./lbs no./lbs	99 23/15lbs 5/5lbs  1/65lbs 1/50lbs  14/20lbs 2/15lbs 2/2.5lbs  1/33gals 1/9 liters	25 24/11 lbs 1/110 lbs 1/66 lbs  39 33/11 lbs 5/20 lbs 1/125 lbs  8 1/63 gal 7/2.5 gals 1/12 gals  No  No
<b>L.3.4 Fire Blankets</b>		
Quantity:                                      no. Location(s):	2 ea. Senior and Junior Galley, control room	6 ea. Senior and Junior Galley Welder's Bench, control room

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
<p><b>L.3.5 Fixed Foam System</b></p> <p>Make/type:                      Quantity of foam concentrate stored: gal                      Foam type:                      Application rate: gals/min                      Foam nozzles: no.                      Located at:                      Located at:                      Located at:                      Automatically injected into fixed fire water system: yes/no</p> <p>Make/type:                      Quantity of foam concentrate stored: gal                      Foam type:                      Application rate: U.S. gals/min                      Foam nozzles: no.                      Located at:                      Located at:                      Located at:                      Automatically injected into fixed fire water system: yes/no</p>		NO
<p><b>L.3.6 Helideck Foam System</b></p> <p>Make/type:                      Quantity of monitors: no.                      Quantity of foam concentrated stored: gal                      Foam type:                      Application rate: gals/min</p>	<p>ANSUL                      2 ea.                      200 gpm                      AFFF</p>	<p>ANSUL                      3 ea.                      200 gpm                      AFFF</p>
<p><b>L.3.7 Fixed Fire Extinguishing System</b></p> <p>Protected spaces:                      Engine room, type (Halon/CO2/other):                      Remote manual release located at:                      Paint locker, type (Halon/CO2/other):                      Remote manual release located at:                      Emergency generator type (Halon/CO2/other):                      Remote manual release located at:                      SCR room type (Halon/CO2/other):                      Remote manual release located at:                      Other (specify location &amp; type):Mud Pits                      Remote manual release located at:                      Alarms *audible, visual, or both):                      Automatic shutdown of ventilation fans in protected spaces: yes/no</p>	<p>CO2                      Port Side Entrance                      CO2                      Outside of paint locker                      CO2                      Entrance Door                      CO2                      Port side Entrance                      NO                      Both                      Yes</p>	<p>CO2                      Port Side Entrance                      CO2                      Outside of paint locker                      CO2                      Entrance Door                      CO2                      Port side Entrance                      NO                      Both                      Yes</p>
<p><b>L.3.8 Manual Water Deluge System</b> yes/no</p> <p>Protected spaced:                      Protected spaced:                      Water supplied from fire main line: yes/no</p>		

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
<b>L.3.9 Water Sprinkler System in Accommodation</b>		
Automatic activation: yes/no	Yes	Yes
Working pressure: psi	100 psi	100 psi
Tank capacity: gal	2.88 m3	2.88 m3
Salt water backup: yes/no	Yes	Yes
Type (wet pipe/dry pipe)	Wet Pipe	Wet Pipe
<b>L.4 BREATHING APPARATUS</b>		
<b>L.4.1 General Sets</b>		
Quantity: no.	35 ea	49
Make	SCOTT	SCOTT
Type (demand/positive pressure):	Both.	Both.
Cascade system quick connects: yes/no	Yes	Yes
Cylinder duration: min	30 min.	30 min.
Located at: qty/loc	3 Rig Floor	6 Rig Floor
Located at: qty/loc	4 Shale shaker	2 Shale shaker
Located at: qty/loc	2 S/B Crane pedestal	0 S/B Crane pedestal
Located at: qty/loc	1 Sack room	1 Sack room
Located at: qty/loc	1 Mud Lab	1 Mud Lab
Located at: qty/loc	1 Mechanic Workshop	1 Mechanic Workshop
Located at: qty/loc	3 Pump Room	3 Pump Room
Located at: qty/loc	2 Outside warehouse	2 Outside warehouse
Located at: qty/loc	2 Engine room	2 Engine room
Located at: qty/loc	1 SCR room	1 SCR room
Located at: qty/loc	1 Rack at S/B Lifeboat	4 outside co2 room
Located at: qty/loc	4 S/B lifeboat station locker	10 S/B lifeboat station locker
Located at: qty/loc	2 Fire M/Box Port lifeboat	9 port lifeboat station
Located at: qty/loc	1 Control room	2 Fire M/Box Port lifeboat
Located at: qty/loc	2 Rig Manager office	1 Control room
Located at: qty/loc	2 Client Office	2 Rig Manager office
Located at: qty/loc	3 E/Gen. room	1 Client Office
		0 E/Gen. room
		radio room
		0 sts office
		1 service company office
Located at: qty/loc		
Quantity: no.	25	no
Make	Draeger	
Type (demand/positive pressure):	Both	
Cascade system quick connects: yes/no	Yes	
Cylinder duration: min	30	
Located at: qty/loc	11 S/B lifeboat station	
Located at: qty/loc	11 Port lifeboat station	
Located at: qty/loc	3 Rig Floor	
Located at: qty/loc		
Located at: qty/loc		
Located at: qty/loc		
Quantity: no.		
Make		
Type (demand/positive pressure):		
Cascade system quick connects: yes/no		
Cylinder duration: min		
Located at: qty/loc		

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
Located at: qty/loc Located at: qty/loc Located at: qty/loc Located at: qty/loc Located at: qty/loc		
<b>L.4.2 Escape Sets</b>		
Quantity: no. Make Type (demand/positive pressure): Cascade system quick connects: yes/no Cylinder duration: min Located at: qty/loc	50 Scott Both Yes 10 min 24 S/B lifeboat station box	2 Scott Both Yes 15 min 2ea. confined space manifold
Located at: qty/loc Located at: qty/loc	2 Portable Cascade rack 24 Port Lifeboat station box	
Quantity: no. Make Type (demand/positive pressure): Cascade system quick connects: yes/no Cylinder duration: min Located at: qty/loc Located at: qty/loc	2 Scott Demand Yes 5 2 Monkey board	2 Scott Demand Yes 5 2 Monkey board
<b>L.4.3 Cascade Stations</b>		
Quantity: no. Make/type: Manifold locations/outlets at location: Manifold locations/outlets at location: Manifold locations/outlets at location: Manifold locations/outlets at location: Manifold locations/outlets at location:	Starboard helideck Shale shaker Rig floor	NO
<b>L.4.4 Breathing Air Recharge Compressor</b>		
Quantity: no. Make/type: Compressed air storage capacity: ft3 Working pressure: psi Located at: Located at:	1 BAUER/ Utilus 10 110L/min 3100 PSI / 3hp motor Bow Leg	1 BAUER/ Utilus 10 110L/min 3100 PSI / 3hp motor Bow Leg
Quantity: no. Make/type: Compressed air storage capacity: ft3 Working pressure: psi Located at: Located at:		
<b>L.4.5 Compressed Air Breathing Apparatus Trolley Unit</b>		No
Make: Type (demand/positive pressure):		

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
Air line length: ft		
Compressed air storage capacity: ft <sup>3</sup>		
Working pressure: psi		
Including:		
Face Mask: yes/no		
Demand valve: yes/no		
Microphone: yes/no		
Safety harness: yes/no		
Safety line (incorporating telephone line): yes/no		
<b>L.4.6 Breathing Air Purity Test Equipment</b>	Yes	Yes
Quantity: no.	1	1
Make/type:	MSA Auer/Airtester HP	MSA Auer/Airtester HP
<b>L.5 EMERGENCY FIRST AID EQUIPMENT</b>		
<b>L.5.1 First Aid Kits</b>		
Quantity: no.	5	7
<b>L.5.2 Burn Kits</b>		
Quantity: no.	3	3
<b>L.5.3 Resuscitators</b>		
Quantity: no.	2	2
Charged (spare) oxygen cylinders: no.	6	8
<b>L.5.4 Stretchers</b>		
Quantity: no.	1 each	1 each
Type:	Vacuum Stretcher and Folding stretcher	Vacuum Stretcher and Folding stretcher
Located at:	Hospital	Hospital
Quantity: no.	1	1
Type:	Scoop Stretcher	Scoop Stretcher
Located at:	Rig floor	Rig floor
Quantity: no.	1 each	1 each
Type:	Basket stretcher and Spine board stretcher	Basket stretcher and Spine board stretcher
Located at:	Emergency Gen. room	Emergency Gen. room
<b>L.6 HELIDECK RESCUE EQUIPMENT</b>	yes	
Aircraft Axe: yes/no	Yes	Yes
Large fireman's rescue axe: yes/no	Yes	Yes
Crowbar: yes/no	Yes	Yes
Heavy duty hacksaw: yes/no	Yes	Yes
Spare blades: yes/no	Yes	Yes
Grapple hook: yes/no	Yes	Yes
Length of wire rope attached: ft	50 ft.	50 ft.
Quick release knife: yes/no	Yes	Yes
Bolt croppers: yes/no	Yes	Yes
Fireman's outfit: yes/no	Yes	Yes

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
CO2 Lance: yes/no Other: Adjustable wrench Other: Rescue Ladder Other: Fire resistant Blanket Other: portable safety lamp	no	no Yes Yes Yes yes
<b>L.7 EMERGENCY WARNING ALARMS</b>		
Approved system to give warning of different emergencies: yes/no	yes	Yes
Activated from drill floor: yes/no	yes	no
<b>L.8 SURVIVAL EQUIPMENT</b>		
<b>L.8.1 Lifeboats</b>	yes	
Make/type: Quantity: no. Capacity: person/craft Locations (frwd/aft/port/stbd): Fire protection: yes/no Radio/EPIRB (see section H.9):	WATERCRAFT/ 26TE 1 44 person Totally enclosed yes	WATERCRAFT/ 26TE 1 44 person Port. Yes Yes
Make/type: Quantity: no. Capacity: person/craft Locations (frwd/aft/port/stbd): Fire protection: yes/no Radio/EPIRB (see section H.9):	WATERCRAFT/ 26TE 1 44 person Starboard side Yes Yes	WATERCRAFT/ 26TE 1 44 person Starboard side Yes Yes
Make/type: Quantity: no. Capacity: person/craft Locations (frwd/aft/port/stbd): Fire protection: yes/no Radio/EPIRB (see section H.9):		
<b>L.8.2 Liferrafts</b>		
Make/type: Quantity: no. Capacity: person/craft Davit launched: yes/no Locations (frwd/aft/port/stbd):	Solas/ Inflatable 2 20 person No Stbd and Port side	Viking Life / Inflatable 4 20 person No Port side
Make/type: Quantity: no. Capacity: person/craft Davit launched: yes/no Locations (frwd/aft/port/stbd):	Solas/ inflatable 2 25 person No S/B and Portside	
<b>L.8.3 Fast Rescue Boat</b>		
Make/type: Engine power: hp	Raffel MOB470/ 6 Man 50 hp.	Viking 470 GRP-1 36 hp.
<b>L.8.4 Personal Floatation Devices</b>	yes	

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
Make/type: Quantity: no.	USCG approved 140 jackets	USCG approved 158 jackets
<b>L.8.5 Survival Suits</b>	No	No
Make/type: Quantity: no.		
Make/type: Quantity: no.		
<b>L.8.6 Life Ring Buoys</b>		
Make/type Quantity total: no. with lights: no. with smoke: no. with EPIRB: no.	Billy Pugh 14 6 no. 4 no. N/A	Billy Pugh 14 6 no. 4 no. N/A
<b>L.8.7 Work Vests</b>	Yes	
Quantity: no.	20 ea	20
<b>L.8.8 Escape Ladders/Nets</b>	yes	Yes
Make/type: Quantity: no.	Scramble Net 2	Scramble Net. 2
Make/type: Quantity: no.		Coomar/Escape ladder 2
Make/type: Quantity: no.		
<b>M. POLLUTION PREVENTION EQUIPMENT</b>		
<b>M.1. SEWAGE TREATMENT</b>	yes	
Make/model: System type:		Omni pure 12 MX MP
<b>M.2 GARBAGE COMPACTION</b>	No	<b>Yes</b>
Make/model: System type:		<b>Enviro Pak B30</b>
Make/model: System type:		
<b>M.3 GARBAGE DISPOSAL/GRINDER</b>		
Make/model: System type:	Yes	RED GOAT/ C10P-F3 Waste Disposal Unit. 460VAC, 60 HZ

## RIG AND EQUIPMENT SPECIFICATIONS

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
<b>M.4 INCINERATOR</b>  Make/model: System type:		No
<b>M.5 OILY WATER SEPARATOR</b>  Quantity: no. Make/model: System type: Nominal throughput: gpm	Yes	1 Compass Water solution Ultrasep Model 2000-TPK4 2 M3/h