

PLATFORM 1-F LIST

A. UNIT SPECIFICATIONS		
Rig type		FRIEDE & GOLDMAN
Unit / Design / Shape		Astilleros Corrientes Hull
Unit flag		Vanuatu
Unit classification		IMO MODU Code
Year of Construction		1985
Construction yard		Astilleros Corrientes, Argentina
A.1. MAIN DIMENSION / TECHNICAL DESCRIPTION		
Light ship:	lt	15,196 kips (6,784 lt)
Hull length:	ft	175
Hull Width:	ft	180
Hull depth:	ft	25
Jack house height	ft	15 ft above Main Deck
Distance from Rig Floor to Bottom of Hull	ft	53
Number of legs/length:	no. x ft	3 / 416'8"
Leg length available below hull:	ft	376
Jack Up Leg Minimum safe distance from Top of Jack house to the Top of Leg	ft	2
Type of leg:		Triangle
Leg spacing (center to center)		
Transverse:	ft	120
Longitudinal:	ft	115
Independent leg or matt		
Spud can jetting system, yes/no	yes/no	Yes
Spud can diameter/bearing area:	ft/ft ²	39'8" ft / 1,236 ft ² Foot Print area
Spud can height	ft	20
Spud can jetting system:	yes/no	Yes, 24 jets 12 each above and below each can Able to use High Pressure with Rig Mud Pumps
Bottom jets:	yes/no	yes
Top jets:	yes/no	yes
Cantilever or slot		Cantilever
Skid-off:	yes/no	Yes
Cantilever envelope:	ft/ft	
Reach AFT, from / to	ft/ft	50 ft w/ 10 ft extension beams
Transverse, port / stbd	ft/ft	12 ft either side of C/L
Maximum quantity of drill pipe stands can be kept racked on derrick during the skidding operation	ft	10,000 ft
Maximum quantity of drill Collars stands can be kept racked on derrick during the skidding operation	ft	1,000 ft
Cantilever Beam Load Chart		The cantilever beams chart load shows the hook load and setback capacity at each skidded position.

A.2. STORAGE CAPACITIES		
Fuel	bbl	2,436
Drilling water	bbl	5,572
Potable water	bbl	1,393
Mud processing tank (see F.2):	bbl	425
Active liquid mud (see F.2):	bbl	1,496 (active & reserve)
Waste liquid (mud and washing water)	m ³	8.7 m ³
Bulk bentonite / barite (see F.3):	ft ³	4,000 cu. ft
Bulk cement (see F.3):	ft ³	4,000 cu. ft
Sack storage	sacks	2,500 sacks
Drill pipes / Collars racking capacity	No./ft	15,000 ft on Main Deck 12,000 ft on Cantilever
A.3. JACK UP SYSTEM		
A.3.1. Jacking Systems		
Make / type		
No. of jacks or pinions	no	12 pinions per each leg
Maximum jacking load:	kips	7,552 kips lifting capacity of each leg (Emergency lifting)
Holding capacity of each leg	kips	2,500 kips (Survival mode)
Jacking speed	ft/min	1.6 ft/min (up); 1.9 ft/min (down)
A.3.2.1 Salt water service pump:		
Quantity, no:		2 Submersible Sea Water Pumps
Make/type:		Crown / 3 stage
Capacity:	bbl/min	1200 GPM
Horsepower:	hp	100
Quantity:	no	1 Submersible Sea Water Pump
Make/type:		Crown / 3 stage
Capacity:	bbl/min	900 GPM
Horsepower:	hp	75
Quantity:	no	2 Other Water Pumps used for drill water rig service
Make/type:		Specific model RM 1060A / 6 stage
A.4. OPERATIONAL CAPABILITIES		
Max design water depth capability	ft	300
Outfitted max water depth capability	ft	300
Minimum outfitted water depth capability	ft	14
Minimum Transit water depth capability	ft	14 ft MIN. DRAFT
Maximum Operating AIR GAP for which the Unit is fully equipped	ft	75
Number of tugs for ocean tow	no	3
Nominal power of each Vessel	hp	5,000
Associated minimum bollard pull per tug	lt	Bollard pull required for ocean tow & infield tow 40 st (35.7 lt)

Anti – roll system, yes/no :	yes/no	
A.5. ENVIRONMENTAL LIMITS		
Working water depth	ft	300 ft
Drilling		
Air gap (below bottom of main hull)	ft	44
Max. wave height:	ft	25
Related wave period:	sec	N/A
Max. wind velocity:	knots	50
Max. current velocity:	knots	1
Max. Leg Penetration Considered	ft	10
Survival:		
Air gap (below bottom of main hull)	ft	44
Max. wave height:	ft	43
Related wave period:	sec	13.5 sec
Max. wind velocity:	knots	100
Max. current velocity:	knots	1
Max. Leg Penetration Considered	ft	10
Additional Information Available:		
A.6. MOORING SYSTEM		
A.6.1. Anchor Winches		
Quantity	no	4
Make / model		Skagit type JUW-075
Rated pull	lt	75,000 lbs (33.48 lt)
A.6.2. Anchors		
Quantity	no	4
Make/type		Stevfix
Weight	lt	6,600 lbs (2.95 lt)
A.6.3. Anchor Lines		
Wire		
Quantity (installed + spare):		4
Construction:		6 x 37 IWRC EIPS
Diameter:	in	1 1/2"
Useful length (nominal):	ft	2,500 ft less cut offs
Mooring Lines Breaking strength	lbs	420,000 lbs
A.6.4. Towing Gear		
Towing bridle size:	in	(2) 2 3/4" dia X 65 links ORQ welded stud length chain
Hook-up system		Knock out / quick release
Pull Rating	lt	744,000 lbs (332 lt)
Spare bridle	yes/no	

A.6.5. Supply Vessel Mooring System		
System description:	4" nylon ropes	
Location (port/stbd/both):	Both (2 each side of vessel)	
A.7. MARINE LOADING HOSES		
Location of loading manifolds (port/stbd/both):	Equipped on both sides	
A.7.1. Potable Water Hoses		
Quantity	Equipped on both sides	
A.7.2. Drilling Water Hose		
Quantity	no	N/A
A.7.3. Gas Oil Hose		
Quantity	no	Equipped on both sides
A.7.4. Mud Chemical Hoses		
Quantity	no	Equipped on both sides
A.7.5. Cement Hose		
Quantity	no	Equipped on both sides
A.7.6. Base Oil Hose		
Quantity	no	Equipped on both sides
A.7.7. Brine Hose		
Quantity	no	N/A
A.7.8. Other		
Use:		
Quantity	no	
A.8. CRANES, HOIST, AND MATERIALS HANDLING		
A.8.1. Cranes		
Quantity	no	3
Specification (API, etc.)	ABS	
Make	Skagit	
Type	363	
Location (frwd / aft / port / stbd)	1 Portside, 2 Starboard	
Boom length	ft	100
Block capacities and hoisting speeds:		
Load / radius / speed (30 ft radius)	st/ft/(ft/sec)	51 st
Load / radius / speed (maximum radius)	st/ft/(ft/sec)	12 st

Crown saver (limit switch) :	yes/no	yes
Boom illumination :	yes/no	yes
Additional information available:		
Driving system (diesel, hydraulic, electric)		Diesel, Hyd. Air
A.8.2. Forklifts		
Quantity	no.	1
Make / type		Hyster type DS
Rated capacity	lt	2 st (1.78 lt)
explosion proof:	yes/no	
A.8.3. Monorail Overhead Cranes		
Quantity	no.	N/A
Make		
Type		
Rated Capacity:	st	
Location(s)		
A.8.4. Air Hoist / Derrick Winches		
A.9.4.1 Rig Floor Winches (Non man-riding)		
Quantity:	no.	2
Make:		Ingersoll Rand
Type:		FA5ALXK1-1
Rated capacity:	lt	5 mt (4.92 lt)
Wire diameter:	in	3/4"
Automatic brake:	yes/no	Yes
Overload protection:	yes/no	Yes
Automatic spooling :	yes/no	Yes
Safety guard	yes/no	Yes
Certified for man-riding, yes/no:	yes/no	No
A.9.4.2 Monkey Board Work Winch		
Quantity:	no.	1
Make:		Ingersoll Rand
Rated capacity:	lt	1000 lbs (0.44 lt)
A.9.4.3 Rig Floor "Man-Riding" Winch		
Quantity	no.	2
Make		Ram Winches USA
Type		Catalina-ML 336A-250-38
Rated capacity	lt	0.16 lt
Wire diameter:	in	3/8"
Non-twisted wire:	yes/no	Yes
Automatic brake:	yes/no	Yes
Overload protection:	yes/no	Yes

Automatic spooling:	yes/no	Yes
Certified for man-riding:	yes/no	Yes
A.9.4.4 Utility Winch (i.e. Deck Winch)		
Quantity	no.	2
Make		Ingersoll Rand
Type		R EUL
Rated capacity:	lt	10,000 lbs (4,46 lt)
Wire diameter:	in	3/8"
Automatic brake:	yes/no	Not used for lifting
Overload protection:	yes/no	Not used for lifting
Automatic spooling:	yes/no	No
Safety guard	yes/no	Yes
Certified for man-riding:	yes/no	No
Locations		Main deck, port / starboard
Quantity	no.	2 man riding winches
Make		Ram Winches USA
Type		Catalina-ML 336A-250-38
Rated capacity:	lt	0.16 lt
Wire diameter:	in	3/8"
Automatic brake:	yes/no	Yes
Overload protection:	yes/no	Yes
Automatic spooling:	yes/no	Yes
Safety guard	yes/no	Yes
Certified for man-riding:	yes/no	Yes
Locations		Under cantilever, port / starboard
Quantity	no.	1
Make		Ingersoll Rand
Type		K6U
Rated capacity:	lt	4.92 lt
Wire diameter:	in	3/4"
Automatic brake:	yes/no	
Overload protection:	yes/no	
Automatic spooling:	yes/no	
Safety guard	yes/no	
Certified for man-riding:	yes/no	no
Locations		Under heliport (for towing system)
A.9.4.5 BOP Hoists (see E.10.1)		
A.8.5. Transfer Baskets / Containers		
A.9.5.1 Personnel Transfer Baskets		
		2 (Billy Pugh Personnel Basket complete with life jackets and safety belts)

A.9.5.2 Cargo Containers		N/A
Quantity		
Make / type		
Additional Information Available:		
A.9. HELICOPTER LANDING DECK		
Location (frwd / aft / port / stbd)		
Dimensions	ft x ft	70 ft Diameter
Perimeter safety net	yes/no	Yes, Chain link fencing
Perimeter safety net width	ft	4 ft
Designed for helicopter type		Sikorsky S-61
A.9.1. Helicopter Refueling System		N/A
System make/type		
Fuel storage capacity	US gal	
Jettisonable	yes/no	
Fuel transport containers, no:		
Volume:	US gal	
Covered by foam fire system	yes/no	
A.10. AUXILIARY EQUIPMENT		
A.10.1. Water Distillation		
Quantity		2 nos
Make / type		Alfa-Laval / model D-PU-36-C100 Hatenboer Water BV / Demitec SW 8040/04
Capacity (each / total):	US gal/day	6,200 / 12,400
Additional Information Available:		
A.10.2. Electric Welding Sets		
Quantity		3 sets
Make / model		Lincoln model SAE-400
A.10.3. Steam Cleaning Machine		
Quantity		2
Make/type		Comet-Vema Static 15-200
A.10.4. Connecting Passage between Jack-Up Hull and Fixed Platform		Equipped (removable stairs, suitable to operate 3 m abovecellar deck, complete with lighting system)
A.10.5. Mechanical Workshop		
Dimensions		15 ft x 15 ft
Location		Lower level
Complete with (main machines)		Drillpress, Threading Machine

A.10.6. Spaces for Company and Third Party Materials and Equipment	
Warehouses for Company material	Spaces are available as needed
Space for Well Logging Unit and Tools	Space provided in various locations around the rig
Space for Mud Logging Unit	Top of Shaker area (40 ft x 16 ft)
Space for Other Third Party Equipment	Various areas
Space for Cementing Unit	Port stern Main Deck (40 ft x 16 ft)
Space for Cement Batch Mixer Tank	On Main Deck
Space for Mud Decanting Centrifuge	On Shaker Roof
Utilities Services for above spaces	As required (fresh water, air compressed, electrical power, interphone, general alarm)
Emergency Storing area for Explosive Container	Available Port & Starboard sides
Emergency Storing area for Radioactive Material Container	Available on top of shaker house

B. GENERAL RIG SPECIFICATIONS COMPANY REQUIREMENTS CONTRACTOR TO PROVIDE		
B.1. DERRICK AND SUBSTRUCTURE		
B.1.1. Derrick / Mast		
Make / type		DRECO / Galvanized square bolted beam
Built as per Rules		API 4E
Rated for wind speed		
With full set back:	knots	87
Height	ft	160
Dimensions of base	ft x ft	30 ft x 30 ft
Dimensions of crown	ft x ft	N/A
Static hook load	lbs	1,040,000 with max number lines
Maximum number of lines	no.	12 lines
Ladders with safety cages and rests :	yes/no	Yes
Counter balance system for rig tongs:	yes/no	Yes
Lighting system explosion proof :	yes/no	Yes
Vent line up to crown		10" OD
B.1.2. Racking Platform		
Make / type		DRECO / Figures
Racking Platform Capacity of 5" DP	ft	22,000
Racking Platform Capacity of 9 1/2" DC	ft	100
Racking Platform Capacity of 11 1/4" DC	ft	As required
B.1.3. Casing Stabbing Board		
Make / type		DRECO / Air operated
Adjustable from / to height above rotary	ft / ft	28 ft/57 ft
B.1.4. Substructure		

Make / type		J&B Company
Built as per API Specifications		API 4E
Drill floor height (above main deck)	ft	
Length	ft	45
Width	ft	49
Simultaneous setback + hook load capacity	kips	1,650
Rotary beam capacity (total)	st	450
Clear height below rotary table beams (to main deck)	ft	28
Rig Floor Anti slipping Pad	make	Custom Safety Products Inc. Safety Pad II
B.1.5. Weather Proofing		
Rig floor wind breaks	yes/no	Yes, type steel 14 ft height
Derrickman wind breaks	yes/no	Yes, type Canvas 10 ft height
B.1.6. Derrick TV Camera System		
Camera located at		Monkey Board
Make / type		Panasonic
Zoom / Pan / Tilt-function	yes/no	yes
Monitor located at		Drillers cabin

B.2. DRAWWORKS AND ASSOCIATED EQUIPMENT

B.2.1. Drawworks		
Make / type		Oilwell / E-3000
Motors make / type		EMD / D-79MB
Quantity	no	2
Rated input power	hp	2000 HP
Drum size (diameter x length),	in x in	36" x 62"
Drum type (grooved/smooth)		570 st (low transmission, low clutch)
For drill line size	in	1 1/2"
Brake type (disc / drum)		66" x 12 water cooled drum
Makeup cathead type		Foster 37 AK
Breakout cathead type		Foster 24 AK
Crown block safety devices	yes/no	yes
Make/type		Koomey type 80
Automatic driller	yes/no	
Make/type		N/A
B.2.2. Auxiliary Brake		
Make		Baylor-Elmago
Model		7838
Battery back-up system	yes/no	No

B.3. DERRICK HOISTING EQUIPMENT

B.3.1. Crown Block		
Make / type		DRECO / Standard
API Specification		API 8-C
Rated capacity :	st	716 st
Number of sheaves :	no.	8
Sheave diameter	in	60"
Sheave grooved for line size, in	in	1 1/2"
B.3.2. Traveling Block		
Make / type		National / 760 H 650
API Specification		API 8-C
Rated capacity :	st	716 st
Number of sheaves :	no.	7
Sheave grooved for line size :	in	1 1/2"
B.3.3. Hook		
Make / type		National / H 650
API Specification		API 8-C
Rated capacity	st	716 st
B.3.4. Swivel		
		N/A
Make / type		
API Specification		
Rated capacity	st	
Test / working pressure	psi	
Gooseneck and wash pipe minimum ID,	in	
Access fitting for wire line entry on top gooseneck	yes/no	
B.3.5. Drilling Line		
API Specification		API 9A
Diameter	in	1 1/2"
Construction		6 x 19 IWRC EIPS
Drilling Line breaking strength	st	114
B.3.6. Dead Line Anchor		
Make/type		National / EB
API Specification		API 8-C
Weight sensor	yes/no	Yes, Martin Decker Type E-80 sensor
Rated Capacity	Ton	45
B.3.7. Block Guidance system		
Block Guidance System	yes/no	Yes
Traveling Block Retraction System	yes/no	No

B.4. ROTATING SYSTEM		
B.4.1. Rotating Table		
Make / type		Oilwell / A 49-1/2
Maximum opening		49 - 1/2"
Rated capacity	st	716
Electric motor make/type		EMD / D-79
B.4.2. Master Bushings		
Make / type		Varco / MPCH
Insert bowls (see G.1.8):	yes/no	3
B.4.3. Kelly Bushing		
		Spare to Top Drive, provided when required by operation
Make/type		Varco / HDP 5 1/2"
B.4.4 Top Drive System		
Make		Varco TDS 3
Type (electric / hydraulic)		electric
Rated capacity	st	550
Test / working pressure	psi	10,000 psi test press.5,000 psi WP
Output power	hp	1000 HP
Maximum output continuous torque	lb-ft	29,000 ft-lbs (at related rotating speed 183 RPM)
Two-speed gear box (yes / no)	yes/no	Yes
Maximum rotary speed	rpm	205
Remote operated kelly cock , yes/no	yes/no	Yes
Cooling system type		Air cooling
Upper inside BOP (see also D.1.15)		
Quantity	no.	1
Make / type		Varco hydraulic actuated
Working pressure		10,000 psi test press.7,500 psi WP
Max. OD body	in	7 1/4"
Max. ID body	in	2 13/16"
Connection type (box)		6 5/8 Reg
Connection type (pin)		6 5/8 Reg
Upper inside BOP		
Quantity	no.	1
Make / type		Varco hydraulic actuated
Working pressure		10,000 psi test press.7,500 psi WP
Max. OD body	in	7 1/4"
Max. ID body	in	2 13/16"
Connection type (box)		6 5/8 Reg
Connection type (pin)		6 5/8 Reg

B.4.4.1 Top Drive Makeup / Breakout System		
Make / type		Varco
Model		PH -75
Max. makeup torque	ft – lbs	75,000 ft - lbs
Max. break out torque	ft – lbs	100,,000 ft - lbs
Raised backup system , yes/no	yes/no	Yes
Make/type		Yes
Working height (range) , ft		3 ft / hydraulic range

C. POWER SUPPLY SYSTEMS		
C.1. RIG POWER PLANT		
Engine room walls	type	Fire-Proof
Engine room positive pressurized	yes/no	Yes
C.1.1. Diesel Engines		
Quantity	no	1
Make / type		EMD / MD12-645-E8
Maximum continuous power	hp	1,650 HP
Diesel Engines Air intake point		Outside area classified hazardous
Diesel Engines exhaust discharge point		Outside area classified hazardous
Quantity	no	2
Make / type		EMD / MD16-645-E8
Maximum continuous power	hp	2,200 HP
Diesel Engines Air intake point		Outside area classified hazardous
Diesel Engines exhaust discharge point		Outside area classified hazardous
C.1.2. DC – Generator		
Quantity		
Make/type		
Continuous power		
At rotaton speed of , rpm		
Output volts , volts		
C.1.3. AC – Generator		
Quantity	no.	3
Make / type		EMD / AB20-6
Continuous power	KVA	2100 KVA each
at rotation speed of	rpm	
Output volts	volts	600 V
Frequency	Hz	60

C.1.4. SCR System		
Number of SCR		4 Bays
Make / type		Ross-Hill / 1800 AMP Bridges
SCR output voltage		750 V
SCR output amperage		1200 A
Number of motors that SCR can run simultaneously	No./Kw	7 @ 4325
C.1.5. Transformer System		
Quantity	no.	4
Continuous power (each)	KVA	2 x 150 KVA each, 2 x 1000 KVA each
Output volts	volts	2 x 480 in 120/208 out., 2 x 600 in 480 out.
Max. output amperage		1200 A
Frequency	Hz	60 Hz
C.1.6. Emergency Shutdown		
Emergency shutdown switches for the complete power system (AC and DC), located at the following points		Shutdown switch for DC power located on Rig Floor – SCR MainControl Panel Shutdown switch for AC power located on Rig Floor – AC MainControl Panel
C.1.7. Compressed Air System		
Air compressors – Cold Start		
Quantity		1
Make		Ingersoll Rand
Working pressure	psi	120
Prime mover (electric/diesel)		Electric
Air compressors – Medium pressure (rig air)		
Quantity	no.	2
Make		Quincy Compressors
Model		QSI-440I
Rated Capacity :	ft ³ /min	440
Working pressure	psi	120
Prime mover (electric/diesel)		Electric
Continuous power :	hp	100
Air dryers		
Quantity	no	2
Make		Great lakes
Rated capacity	ft ³ /min	3-350
Air compressors – Low pressure (bulk air)		
Quantity	no.	1
Make		Ingersoll Rand ML-75

C.1.8. Air Receivers		
Volume (total) – Cold Start	ft ³	53.47
Pressure	psi	200
Nr.:	no	1
Volume (total) : - Bulk air	ft ³	16.04
Pressure:	psi	200
Nr:	no	1
Volume (total) : - Drilling air	ft ³	80.2
Pressure:	psi	200
Nr:	no	2
Additional Information Available:		N/A
C.2. EMERGENCY GENERATOR		
Location		Upper Deck of living quarters
C.2.1. Engine		
Quantity	no.	1
Make / type		Caterpillar /Marine Model C18
Maximum output	hp	587 HP @ 1500 rpm
Dedicated Diesel Engine Fuel Tank	yes/no	Yes, 30 bbls capacity
Automatic starting	yes/no	Yes
Starting methods (air, hydraulic, battery)		Battery
Main Users connected with batteries		
Emergency lighting		
- At every Embarkation station		Yes
- In living quarters		Yes
- In Machinery spaces		Yes
- In Control Rooms		Yes
- In all other Essential Spaces		Yes
- On helicopter Deck		Yes
Navigation Signals		
- Navigation Lights		Yes
- Sound Signals		Yes
Communications System		
- Radio-telecommunication		GMDSS system
- All internal Communication Equipment		Yes
Equipment related to Drill Operations		
- BOP control system		Yes
Safety Monitoring and alarm system		
- Fire Monitoring and alarm system		Yes
- Gas Monitoring and alarm system		Yes
- H2S Monitoring and alarm system		Yes
Time of feeding of all the above Users	Hr	+ 6 Hr

C.2.2. AC - Generator		
Make / type		Cummins, Stamford UK / CALDIC HCM534D1
Maximum continuous power	KVA	425 KW / 570 KVA
Output volts	volts	1800 rpm
Output amperage	Amps	400 V
Capable of back-feeding power to main bus (yes /no)	yes/no	Yes
C.2.3. AC – Main users connected with		
Emergency lighting		
- At every Embarkation station		Yes
- In living quarters		Yes
- In Machinery spaces		Yes
- In Control Rooms		Yes
- In all other Essential Spaces		Yes
- On helicopter Deck		Yes
Navigation Signals		
- Navigation Lights		Yes
- Sound Signals		Yes
Communications System		
- Radio-telecommunication		GMDSS system
- All internal Communication Equipment		Yes
Equipment related to Drill Operations		
- BOP control system		Yes
- BOP accumulator Recharging pump		Yes
Safety Monitoring and alarm system		
- Fire Monitoring and alarm system		Yes
- Gas Monitoring and alarm system		Yes
- H2S Monitoring and alarm system		Yes
Other Safety system		
- One Fire water Pump		Yes
- Personal Lifts		N/A
- Bilge Pump		Yes
- Electrical air compressor		Yes
- One Mud Transfer Pump		No
- Electrical Battery Charger		Yes
Time of feeding of all Users	Hr	24

D. DRILLSTRING EQUIPMENT		
D.1. TUBULARS		N/A
D.1.1. Kellies		
Quantity, no:	no.	
Nominal size OD:	in	
Shape type (hexagonal, square or triangular):		
Total / Working length	ft / ft	
Connection type		
D.1.2. Kelly Saver Subs		N/A
Quantity:	no.	
Nominal kelly size:	in	
Connection type		
Protector:		
D.1.3. Drill Pipe		N/A
Drill pipe OD	in	
Grade		
Total length	ft	
Range		
Weight	lb/ft	
Internally plastic coated	yes/no	
Tool joint OD / ID	in / in	
Connection between pipe & tool joint	type	
Tapered shoulder tool joints degree (box/pins), degree/degree:		
Connection type		
Type of hard facing		
API Specification		
API NDE classification		
Additional Information Available:		
D.1.4. Drill Pipe Pup Joints		N/A
Nominal OD:	in	
Tool joint OD / ID:	in / in	
Grade		
Length,	ft	
Quantity	no.	
Length	ft	
Quantity	no.	
Length	ft	
Quantity	no.	
Weight:	lbs/ft	
Nominal OD:	in	

Tool joint OD / ID:	in / in	
Grade		
Length,	ft	
Quantity		
Length,	ft	
Quantity		
Length,	ft	
Quantity		
Additional information available:		
D.1.5. Drill Pipe Casing Protectors		N/A
Initial stock:, no		
Make /Type		
OD, in:		
Installation tools (manually, hydraulic, none)		
D.1.6. Heavy Wall Drill Pipe		N/A
Quantity	joints	
Nominal size OD	in	
Weight	lbs/ft	
Range		
Tool joint OD / ID	in / in	
Connection between pipe & tool joint	type	
Type of hardfacing		
internally plastic coated:	yes/no	
Connection type		
Outside taper of Box connection		
API steel grade	type	
Actual API NDE classification	type	
Quantity	joints	
Nominal size OD	in	
Weight	lbs/ft	
Tool joint OD / ID	in / in	
internally plastic coated:	yes/no	
Thread protectors, yes/no:	yes/no	
D.1.7. Drill Collars		N/A
Quantity, no	joints	
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	

Bore back on box	yes/no	
Connection type		
Quantity, no:	joints	
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	
Bore back on box	yes/no	
Connection type		
D.1.8. Short Drill Collars		N/A
Quantity, no:	no	
OD Body	in	
ID body	in	
Nominal length of each joint:	ft	
Drill collar body (slick / spiral)	Type	
Elevator recess	Yes/No	
Slip recess	Yes/No	
Stress relief pin groove	yes/no	
Bore back on box	yes/no	
Connection type	yes/no	
Quantity, no:	no	
OD Body	in	
ID body	in	
Nominal length of each joint:	ft	
Drill collar body (slick / spiral)	Type	
Elevator recess	Yes/No	
Slip recess	Yes/No	
Stress relief pin groove	yes/no	
Bore back on box	yes/no	
Connection type	yes/no	
Quantity, no:	no	
OD Body	in	
ID body	in	
Nominal length of each joint:	ft	
Drill collar body (slick / spiral)	Type	
Elevator recess	Yes/No	
Slip recess	Yes/No	
Stress relief pin groove	yes/no	
Bore back on box	yes/no	
Connection type	yes/no	

D.1.9. Non-magnetic Drill Collars		N/A
Quantity, no:	no	
OD Body	in	
ID body	in	
Nominal length of each joint, ft:	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	yes/no	
Additional information available		
D.1.10. Core Barrels		N/A
D.1.11. Stabilizers		N/A
Calipers for OD blade:		
Tri-point caliper for OD blade	in	
Tri-point caliper for OD blade	in	
Tri-point caliper for OD blade	in	
Tri-point caliper for OD blade	in	
D.1.12. Roller reamers		N/A
D.1.13. Shock absorbers		N/A
D.1.14. Drilling jar		N/A
D.1.15. Inside BOP Valve (see also B.4.4)		
Quantity		1
Make		Gray, float type
Connection type		NC-50
Quantity		1
Make		Gray, float type
Connection type		NC-38
D.1.16. Fast Shut-off coupling		N/A
Make/type:		
Quantity, no:		
Tool joint to fit:		
D.1.17. Circulation Head		N/A
Quantity	no.	

Make/type		
Bottom connection type		
Top connection type		
Working pressure:	psi	
Top valve	type	
Quantity	no.	
Make/type		
Bottom connection type		
Top connection type		
Working pressure:	psi	
Top valve		
D.1.18. Kelly Cocks		
<Upper>		N/A
Quantity	no.	
For Kelly size	in	
Working pressure	psi	
Max. OD body	in	
<Lower>		Beside the one installed on Top Drive and to have ready on rig floor
Quantity	no.	2
Make / type		Omsco / FOSV
Working pressure	psi	10,000 psi
Max. OD body	in	6 5/8"
Max. ID body	in	2 3/4"
Connection type		For NC-50 DP connection
X-Over to test lower Kelly cock	no	
Top connection type		
Bottom connection type		
Quantity	no.	
Make / type		
Working pressure	psi	
Max. OD body	in	
Max. ID body	in	
Connection type		
Used as full open safety valve:	yes/no	
D.1.19. Circulation Subs		N/A
Quantity:	no.	
Make / type		
OD body:	in	
Ball size:	in	
Dressing kits:	no.	

Connection type:		
D.1.20. Cup Type Testers		
Quantity:	no.	2
Make:		Cameron
Size:	in	13 3/8", 9 5/8", 7"
Test cup for casing weight:	lb/ft	All weight
D.1.21. Plug Type Testers		N/A
Quantity:	no.	
Make:		
Size test plugs:	in	
Connection type:		
D.1.22. Drop in Valves		N/A
Quantity:	no.	
For nominal OD drill pipe:	in	
Make/Type:		
Max. OD for dart:	in	
Landing Sub	no.	
Complete with retrieving tool	yes/no	
Quantity, no:	no.	
For nominal OD drill pipe:	in	
Make/Type:		
Max. OD for dart:	in	
Landing Sub	no.	
Complete with retrieving tool	yes/no	
D.1.23. Near-Bit Subs (Box-Box)		N/A
Quantity	no.	
OD size	in	
ID size	in	
Top connection type		
Bottom connection type		
Bored for float valve	yes/no	
Float size:		
Float valve	no.	
For DC connection	type	
Make	make	
Type	type	
Float valve	no.	
For DC connection	type	
Make	make	
Type	type	
Float valve	no.	

For DC connection	type	
Make	make	
Type	type	
Additional Information required:		
D.1.24. Crossover Subs		
Quantity	no	
OD size (max/min):	in / in	
ID size:	in	
Top Connections Size		
Type (pin/box):		
Bottom connection size		
Quantity	no	
OD size (max/min):	in / in	
ID size:	in	
Top Connections Size		
Type (pin/box):		
Bottom connection size		
Additional information available		
D.1.25. Drilling Bumper Subs		N/A
Quantity, no:	no	
Make:		
OD:	in	
Stroke:	in	
Connection type:		
D.1.26. Hole Openers		N/A
Quantity, no:		
Make:		
OD:	in	
Connection type:		
D.1.27. Underreamer		N/A
Quantity, no:		
Make:		
OD:	in	
Connection type:		
D.2. HANDLING TOOLS		
D.2.1. Drill Pipe Elevators		
Size	in	5"
Quantity	no.	1
Make		Varco BJ
Model		Type GG

Rated capacity	st	350 st
API Specification		API 8-C
Size	in	3-1/2"
Quantity	no.	1
Make		Varco BJ
Model		Type MGG
Rated capacity	st	225 ton
API Specification		API 8-C
D.2.2. Drill Collar Elevators		N/A
Size	in	
Quantity	no.	
Make		
Model		
Rated capacity	st	
D.2.3. Tubing Elevators		N/A
Size (max / min)	in	
Quantity	no.	
Make		
Model		
Rated capacity	st	
D.2.4. Drill Pipe Hand Slips		
Size	in	5"
Quantity	no.	2 nos
Make / type		Varco BJ, type SDXL
Size	in	3-1/2"
Quantity	no.	2 nos
Make / type		Varco BJ, type SDXL
D.2.5. Semi-Automatic DP Slips		N/A
Size range (largest / smallest)	in / in	
Quantity	set	
Make / type		
D.2.6. Drill Collar Slips		
Size	in	8 " – 9 1/2"
Quantity	no.	1 + 1 spare
Make / type		Varco / DCS-L
Size	in	5 1/2" - 7"
Quantity	no.	1 + 1 spare
Make / type		Varco / DCS-R

Size	in	4" – 4 7/8"
Quantity	no.	1 + 1 spare
Make / type		Varco / DCS-S
D.2.7. Drill Collar Safety Clamps		
Quantity		2 (Varco MPR)
Range		4" – 13"
Quantity		2 (Varco MPR)
Range		2 3/8" – 5 1/2"
D.2.8. Tubing Slips		
Size :		For 3 1/2", 2 7/8", 2 3/8" OD tubing
Quantity		1
Make / type		B.R. 100 ton
D.2.9. Tubing Spider		
		N/A
Slip size (max/min)	in/in	
Quantity	no.	
Rated load Capacity	tonne	
D.2.10. Drill Collar Lifting Subs		
Quantity	no.	6 nos for each drillcollar's size
For DC OD	in	9 1/2; 8; 6 1/2"
Connection type		According with drillcollar's size
D.2.11. DC Lifting Plugs		
		N/A
Quantity	no.	
For DC OD	in	
Connection type		
D.2.12. Bit Breakers		
Quantity	no.	Available
For bit size	in	All cone bit sizes
D.2.13. Elevator Links		
Quantity of sets	set	1 set
Make/type		For TDS
Size	in	3-1/2"
Length	ft	180" (15 ft)
Rated capacity	st	500 st
Quantity of sets	set	1 set
Make/type		For TDS
Size	in	2-3/4"

Length	ft	132" (11 ft)
Rated capacity	st	350 st
D.2.14. Kelly Spinner		
Make/type		N/A
D.2.15. Mud Saver Bucket		
Make		Upetrom
Size		For 5 ½ " and 3 ½ DP
D.2.16. Hydraulic Make-Up / Breakout Machine (e.g. EZ Torque)		
Make / type		Drilco Model E Type 1
Maximum line pull	st	150,000 ft/lbs
Additional Information Available		
D.2.17. Rotary Rig Tongs		
Quantity (sets)	no.	1 set
Make / type		Varco BJ / DB
Size range (max OD / min OD)	in / in	11 1/4" / 3 1/2"
Torque rating:	ft/lbs	65,000 ft-lbs
Quantity (sets)	no.	1 set
Make / type		Varco BJ / HT-100
Size range (max OD / min OD)	in / in	15" / 4"
Torque rating:	ft/lbs	100,000 ft-lbs
Quantity (sets)	no.	1 set
Make / type		Varco BJ / C
Size range (max OD / min OD)	in / in	10 3/4" / 2 3/8"
Torque rating:	ft/lbs	35,000 ft-lbs
D.2.18. Tubing Tongs (manual)		
Quantity (sets)	no.	N/A
Make / type		
Size range (max OD / min OD)	in / in	
Torque rating:	ft/lbs	
D.2.19. Tubing Tongs (power)		
Quantity :	no.	N/A
Make / type		
Size range (max OD / min OD)	in / in	
Max. output torque:	ft/lbs	
Torque indicator	yes/no	
Back-up arm:	yes/no	

D.2.20. Iron Roughneck		N/A
Make / type		
Size range (max OD / min OD)		
Max. makeup torque		
Max. breakout torque		
D.2.21. Spinning Wrench		
Make/type		Spinner Hawk / chain
For OD Tubulars	in	3 1/2" – 9"
D.3. FISHING EQUIPMENT		
D.3.1. Overshots		N/A
Quantity	no.	
Make / type		
Overshot OD	in	
To catch size:	in	
To catch size:	in	
Overshot guide OD:	in	
Extension sub length:	ft	
Lipped guide (oversize, regular)		
Grapples (spiral, basket, both):		
Pack offs, yes/no:	yes/no	
Top sub Connection type		
Top sub lock-ring	yes/no	
Quantity	no.	
Make / type		
Overshot OD	in	
To catch size:	in	
To catch size:	in	
Overshot guide OD:	in	
Extension sub length:	ft	
Lipped guide (oversize, regular)		
Grapples (spiral, basket, both):		
Pack off:	yes/no	
Top sub connection type		
Top sub lock-ring	yes/no	
Quantity	no.	
Make / type		
Overshot OD	in	
To catch size:	in	
Overshot guide OD:	in	
Extension sub length:	ft	
Lipped guide (oversize, regular)		
Grapples (spiral, basket, both):		

Pack offs:	yes/no	
Top sub connection type		
Top sub lock-ring	yes/no	
Additional Information Available:		
D.3.2. Hydraulic Fishing Jar		N/A
Quantity	no.	
Make / type		
OD body:	in	
Min ID::	in	
Stroke:	in	
Connection type:		
Repair kit:	yes/no	
D.3.3. Jar Intensifier		N/A
Quantity		
Make / type		
OD body:	in	
Min ID:	in	
Connection type:		
Repair kit:	yes/no	
D.3.4. Surface Jars		N/A
Quantity	no.	
Make / type		
OD body:	in	
Min ID:	in	
Stroke:	in	
Connection type:		
Repair kit:	yes/no	
D.3.5. Fishing Bumper Subs		N/A
Quantity	no.	
Make / type		
OD body:	in	
Min ID:	in	
Stroke:	in	
Connection type:		
D.3.6. Safety joints		N/A
Quantity:	no.	
Make /type		
OD Body:	in	
Min ID:	in	
Connection type:		

D.3.7. Junk Baskets (Reverse Circulation)		N/A
Quantity	no.	
Make / type		
For hole size	in	
OD body	in	
Connection type	in	
Inside magnet available:	yes/no	
Mill shoes type (A, B, C)		
Quantity	no.	
Make / type		
For hole size	in	
OD body	in	
Connection type		
Inside magnet available:	yes/no	
Mill shoes type (A, B, C)		
D.3.8. Junk Subs		N/A
Quantity	no.	
Make / type		
For hole size	in	
OD body	in	
Connection type		
Quantity	no.	
Make / type		
For hole size	in	
OD body	in	
Connection type		
Quantity	no.	
Make / type		
For hole size	in	
OD body	in	
Connection type		
D.3.9. Junk Mill (Taper, Flat bottom)		N/A
Quantity	no.	
Make / type		
OD flat mill, in:	in	
Connection type		
Fishing neck	in	
Quantity	no.	
Make / type		

OD flat mill, in:	in	
Connection type		
Fishing neck	in	
Quantity	no.	
Make / type		
OD flat mill, in:	in	
Connection type		
Fishing neck	in	
D.3.10. Fishing magnet		N/A
Quantity	no.	
Make / type		
OD body	in	
Connection type		
Quantity	no.	
Make / type		
OD body	in	
Connection type		
D.3.11. Taper Taps		N/A
Quantity	no.	
Make / type		
OD (max/min):	in / in	
OD body:	in	
Length overall:	ft	
Connection type		
Quantity	no.	
Make / type		
OD (max/min):	in / in	
OD body:	in	
Length overall:	ft	
Connection type		
D.3.12. Die Collars		N/A
Quantity	no.	
Make / type		
OD (max/min):	in / in	
OD body:	in	
Length:	ft	
Connection type		

D.3.13. Impression Block		N/A
Quantity	no.	
Make / type		
OD body:	in	
Quantity	no.	
Make / type		
OD body:	in	

E. WELL CONTROL / SUBSEA EQUIPMENT		
E.1. DIVERTER		N/A
Fixed:	yes/no	N/A
Make / type:		
Maximum bore:	in	
ID of insert packer:	in	
Working pressure:	psi	
Annular:	no.	
Make/type:		
Maximum bore:	in	
Working pressure	psi	
Bottom connection:		
Size:	in	
Working pressure:	psi	
Gasket type:		
Rams:	no.	
Make/type:		
Ram packer type:		
Ram packer type:		
Max. bore size:	in	
Number of diverter outlets:	no.	
Outlet OD (nominal):	in	
E.1.1. Diverter Flow Lines		N/A
Quantity:	no	
Nominal size of flow lines:	in	
Running from diverter to:		
Valve make/type:		
Quantity:	no	
Size	in	
Working pressure :	psi	
Valve operator (air / hydraulic)		
BOP Diverter Spool		
No Welded Adapter Diverter Spool		

Diverter control hoses		
Quantity:	no	
Make/type:		
ID:	in	
Working pressure:	psi	
Fire resistant:	yes/no	
Quantity:	no	
Make/type:		
ID:	in	
Working pressure:	psi	
Fire resistant:	yes/no	

E.2. LOW PRESSURE BLOWOUT PREVENTERS

All appropriate components H ₂ S rated yes/no		No
E.2.1. Ram Type Preventers		
Quantity:	no	1
Make/model:		Upetrom
Type (single/double/triple):		Double
Size:	in	20 ¾"
Working pressure:	psi	3000
Ram locks	yes/no	yes
Type (manual/hydraulic)		manual
H ₂ S service:	yes/no	no
Side outlets:	no.	2 ea
Size:	in	4 1/16"
WP:	psi	3000
Bottom connection:		20 ¾" x 3000 (R 74)
Top connection:		20 ¾" x 3000 (R 74)
Shear ram boosters	yes/no	No
Available Rams(installed & spare)		
Quantity/type/size :	no./type/in	1 ea/pipe ram/5"
Quantity/type/size :	no./type/in	1 ea/blind/ 0"
Quantity/type/size :	no./type/in	1 ea/pipe ram/13 3/8"
Quantity/type/size :	no./type/in	
Quantity/type/size :	no./type/in	
Quantity/type/size :	no./type/in	
E.2.2. BOP Ram configuration (normal)		
Upper:		Pipe ram 5"
Middle Upper:		
Middle Lower:		

Lower:		Blind ram
E.2.3. Annular Preventer		
Quantity:	no.	1
Make/type:		Upetrom/Hydrill type
Size:	in	21 ¼"
Working pressure:	psi	2000
Bottom connection:		20 ¾" x 3000 (R 74)
Top connection:		21 ¼" x 2000 (R 73)
E.3. HIGH PRESSURE BLOWOUT PREVENTERS		
All appropriate components H ₂ S rated yes/no		No
E.3.1. Ram Type Preventers		
Quantity:	no.	1
Make / model:		Type U
Type (single /double / triple):		Double
Size:	in	13-5/8"
Working pressure:	psi	10,000 psi
Ram locks:	yes/no	Yes
Type (manual/hydraulic):		Manual
H ₂ S service:	yes/no	Yes
Side outlets:	no.	4 ea (flanged)
Size:	in	4 1/16"
WP:	psi	10,000 psi
Bottom connection:		13 5/8" x 10,000 psi flange
Top connection:		13 5/8" x 10,000 psi flange
Shear ram booster:	yes/no	
Built as per API Specifications		API 16-A
Quantity:	no.	1
Make / model:		Type U
Type (single /double / triple):		Single
Size:	in	13-5/8"
Working pressure:	psi	10,000 psi
Ram locks:	yes/no	Yes
Type (manual/hydraulic):		Manual
H ₂ S service:	yes/no	Yes
Side outlets:	no.	2 ea
Size:	in	4 1/16"
WP:	psi	10,000 psi
Bottom connection:		13 5/8" x 10,000 psi flange
Top connection:		13 5/8" x 10,000 psi flange
Shear ram booster:	yes/no	
Built as per API Specifications		API 16-A

E.3.2. Available Rams (installed & spare)			
Quantity / type / size	no/type/in	no./type/in	1 set of Blind rams
Quantity / type / size	no/type/in	no./type/in	1set of 9 5/8"
Quantity / type / size	no/type/in	no./type/in	1 set of 7"
Quantity/type/size	no./type/in	no./type/in	1 sets of 5"
Quantity/type/size	no./type/in	no./type/in	1 set of 3 1/2"
Quantity/type/size	no./type/in	no./type/in	VBR 2 7/8" – 5" = 1 set
Quantity/type/size	no./type/in	no./type/in	
E.3.3. Annular Preventer			
Quantity:		no.	1
Size:		in	13 5/8"
Working pressure:		psi	5,000
Bottom connection:			13 5/8" x 10,000 flange
Top connection:			13 5/8" x 5,000 psi studded
E.3.4. Kill Line Valves			
Quantity:		no.	2
Make / type:			Cameron QF
Size:		in	2 1/16"
Working pressure:		psi	10,000 psi
Gasket type:			BX - 152
Hydraulic/manual/non-return:			Hydraulic operated
H2S service		yes/no	Yes
Built as per API Specifications			API 6A
E.3.4. Kill Line Valves			
Quantity:		no.	2
Make / type:			Cameron F
Size:		in	2 1/16"
Working pressure:		psi	10,000 psi
Gasket type:			BX - 152
Hydraulic/manual/non-return:			Manual operated
H2S service		yes/no	Yes
Built as per API Specifications			API 6A
E.3.5. Choke Line Valves			
Quantity:		no.	2
Make / type:			Cameron
Size:		in	4 1/16"
Working pressure:		psi	10,000 psi
Hydraulic/manual:			Hydraulic operated
H2S service		yes/no	Yes
Built as per API Specifications			API 6A

Quantity:	no.	2
Make / type:		Cameron F
Size:	in	4 1/16"
Working pressure:	psi	10,000 psi
Hydraulic/manual:		Manual operated
H2S service	yes/no	Yes
Built as per API Specifications		API 6A
E.4. OTHER BLOWOUT PREVENTERS		N/A
All appropriate components H ₂ S rated yes/no		
E.4.1. Ram Type Preventers		
Quantity:	no	
Make/model:		
Type (single/double/triple):		
Size:	in	
Working pressure:	psi	
Ram locks	yes/no	
Type (manual/hydraulic)		
H ₂ S service:	yes/no	
Side outlets:	no.	
Size:	in	
WP:	psi	
Bottom connection:		
Top connection:		
Shear ram boosters:	yes/no	
E.5. BOP CONTROL SYSTEM		
E.5.1. Accumulator Unit		
Make/model:		Koomey Type 80
Location:		Under Cantilever deck
Fluid reservoir capacity:	U.S gal	480 gal
Total accumulator capacity (w/o precharge)		352 gal (32 bottles of 11 gal)
System working pressure:	psi	3,000 psi
Control manifold model:		Koomey - a9grbx
Control valves	no.	9, 4-way type
Low/High pressure by-pass valve	yes/no	Yes
Annular pressure regulator type:		Air
Manifold pressure regulator type:		Air
Total useful accumulator volume equals all preventer opening and closing volumes:	yes/no	Yes
E.5.2. Accumulator Hydraulic Pumps		
Electric Driven		Electric driven
Quantity:	no.	1

Make/model:		Koomey
Each driven by motor of power:	hp	40 HP
Flow rate of each pump:	U.S.gal /min	16.5 GPM as per Agip well control policy
At operating pressure:	psi	3,000 psi
Operable off emergency generator:	yes/no	Yes
Air Driven:		Air driven
Quantity:	no	3
Make / model:		Koomey
Flow rate of each pump:	U.S.gal /min	17 GPM as per Agip well control policy
At operating pressure	psi	3,000 psi
Air Supplying pressure	psi	120 psi
Air Supplying source		From Rig air
E.5.3. Primary Control Panel		
Control panel make/model:		Koomey type abb seatec a7gx
Location:		Behind Drillers cabin
Panel controls for the following functions:		
All annular BOP's:	yes/no	yes
All ram BOP's:	yes/no	yes
Diverter System:	yes/no	yes
Kill and choke line valves:	yes/no	yes
Low accumulator low pressure warning:	yes/no	yes
Low reservoir level warning:	yes/no	yes
Low rig air pressure warning:	yes/no	yes
System pressure regulator:	yes/no	yes
Pressure regulator for annular:	yes/no	yes
Graphic display of BOP configuration	yes/no	Yes
With Lights for activated functions	yes/no	Yes
Explosion proof	yes/no	Yes
Alarms :		
Low oil pressure alarm type		Yes
Low air pressure alarm type		Yes
Low fluid level alarm type		Yes
Timing of Closing Bag Preventers :		
Closing time of 30" Diverter	sec	45
Closing time of 20" Bag BOP	sec	45
Closing time of 13 3/8" Bag BOP	sec	30
E.5.4. Remote Control Panels		
Make/model:		CAD
Location:		Tool pusher office
Location:		
Graphic display of BOP configuration	yes/no	Yes

With Lights for activated functions	yes/no	Yes
E.6. CHOKE MANIFOLD		
All appropriate components H2S rated yes/no		yes
E.6.1. Choke Manifold		
Nominal size:	in	4-1/16"
Maximum WP:	psi	10,000 psi
Choke manifold assembled by		Cameron
H2S service	yes/no	Yes
Built as per API Specifications		API 16-C
All connection ends not threaded	yes/no	Yes
Inlet points	No.	3
Provision to connect the Pressure Sensor of Mud Logging Unit	yes/no	Yes
With independent exclusion valve	yes/no	Yes
Quantity of fixed chokes:	no.	N/A
Make/model:		N/A
Size (ID):	in	N/A
Quantity of adjustable chokes:	no.	2
Make / model:		Cameron
Size (ID):	in	3 1/16" x 10,000 psi
Quantity of power chokes:	no	1
Make / model:		Swaco
Size (ID):	in	2 9/16" x 10,000 psi
Choke manifold Remote Control panel		
Location		Behind Drillers Station
Pressure gauges	no	2 (DP & CSG Pressure)
Mud pump stroke counters	yes/no	Yes, one each mud pump
Mud pump stroke Totalizers	yes/no	Yes
Valve Upstream each choke valve		2 Cameron FLS 3 1/16" x 10,000 psi for each manual operated choke valve ; N/A for hydraulic operated choke valve
Outlet to Mud Gas Separator		4 1/16" x 5,000 psi valve connecting steel rigid line
Outlet to Burner Booms		4 1/16" x 5,000 psi valve
E.7. FLEXIBLE CHOKE & KILL LINES (BOP to MANIFOLD)		
Quantity:	no	N/A
Make/type:		
ID:	in	
Working pressure:	psi	
H ₂ S service:	yes/no	
Choke line rigid section		As per API 16-C Specification
Quantity:	no	2
Make/type:		Steel rigid type
ID:	in	3"
Working pressure:	psi	10,000 psi

H ₂ S service:	yes/no	Yes
Choke line connected with		Choke Manifold
Kill line rigid section		As per API 16-C Specification
Quantity:	no	2
Make/type:		Steel rigid type
ID:	in	3"
Working pressure:	psi	10,000 psi
H ₂ S service:	yes/no	Yes
Top Kill line connected with		Mud manifold on Rig Floor Cement
Bottom Kill line connected with		Manifold on Rig Floor
E.8. FLEXIBLE BOP CONTROL HOSES		N/A
Quantity:	no	
Make/type:		
ID:	in	
Fire resistant:	yes/no	
Quantity:	no	
Make/type:		
ID:	in	
Fire resistant:	yes/no	
E.9. BOP TESTING EQUIPMENT		
E.9.1. Hydraulic BOP Test Pump		
Make/Model		N/A
Type:		
Pressure rating:	psi	
Chart recorder:	yes/no	
Make/Model		
Type:		
Pressure rating:	psi	
Chart recorder:	yes/no	
E.9.2. BOP Test Stump		
Size:	in	13 5/8"
WP	psi	10,000
E.10. BOP HANDLING		
E.10.1. BOP Hoist System		
Make / type:		Ingersoll Rand / HERCU-LINK BHS50M
Quantity of hoists:		2, fitted to handle BOP stack in one piece as per request
Number of lift points on BOP:	no.	
System Safe Working Load (max BOP wt)	st	55 st
Vertical maximum stroke	ft	25 ft

Horizontal maximum stroke	ft	30 ft
BOP Handling system certified	yes/no	Yes
Texas Deck / Conductor Pipe Guide		
		1
Make		Transocean Engineering
Type		Suitable for working on free standing well
Cellar Deck Hoisting Winches		
Quantity	no.	4
Make		Ingersoll Rand
Type		K5U
Rated capacity:	lt	10,000 lbs (4,46 lt)
Wire diameter:	in	3/4"
Automatic brake:	yes/no	Not used for lifting
Overload protection:	yes/no	Not used for lifting
Automatic spooling:	yes/no	No
Safety guard	yes/no	Yes
Certified for man-riding:	yes/no	No

F. MUD SYSTEM / BULK SYSTEM		
F.1. HIGH PRESSURE MUD SYSTEM		
System working pressure	psi	5,000
System test pressure	psi	5,000
F.1.1. Mud Pumps		Total = 3 nos
F.1.1.1.		
Quantity	no.	2
Make		National
Model		12-p-160
Type (Triplex / Duplex)		Triplex
Rated input power	hp	1600
Mud pump drive motors/pump		2 ea
Motor type		EMD D-79
Continuous power rating	hp	1600
Fluid end type		S-West
Supercharging pump type		Mission 6" x 8 "
Driven by motor of power	hp	AC-100
Impeller Diameter	in	13 1/2"
Stuffing box seal	type	mechanical
Driving motor speed	rpm	1200
Suction line size	in	2 x 12"
Suction dampener	type	National
Suction filter	yes/no	Yes
Mud pump pulsation dampener type		Hydril K-20

Lines from Mud Pumps to Rig Floor	no	2
Flexible section		3 1/2" x 5,000 psi (Copperstate Shockhose)
Rigid section		5" x 5,000 psi (steel)
As per API Specification		API D – Spec.7
Reset Relief Valve		Retsco type C
Mud Pump discharge filters	yes/no	1
Working flow rate per pump at 90% of max spm		
Liner size :	in	6 1/2", 6", 5 1/2"
F.1.1.2.		
Quantity	no.	1 (installed on the Main Deck – opened space)
Make		Upetrom
Model		3PN 2000 LG – 2EC
Type (Triplex / Duplex)		Triplex
Rated input power	hp	2000
Mud pump drive motors/pump		2 ea
Motor type		GEB 22 A
Continuous power rating	hp	1150 HP
Fluid end type		One piece casting
Maximum working pressure, psi	psi	5,000
Test pressure, psi	psi	7,500
Supercharging pump type		Halco Supreme 6" x 8 "
Driven by motor of power	hp	70 hp
Impeller Diameter	in	13 1/2"
Stuffing box seal	type	mechanical
Driving motor speed	rpm	1725
Suction line size	in	2 x 12"
Suction dampener	type	National
Suction filter	yes/no	Yes
Mud pump pulsation dampener type		Hydril K-20
Lines from Mud Pumps to Rig Floor	no	2
Flexible section		3 1/2" x 5,000 psi (Copperstate Shockhose)
Rigid section		5" x 5,000 psi (steel)
As per API Specification		API D – Spec.7
Reset Relief Valve		Retsco type C
Mud Pump discharge filters	yes/no	1
Working flow rate per pump at 90% of max spm		
Liner size :	in	5 1/2", 6", 6 3/4", 7 1/2"
Pump speed (90% of max.) :	spm	110 spm
Pump pressure:	psi	5000 psi, 4424 psi, 3495 psi, 2828 psi
Working flowrate :	USgal/min	444 gpm; 528 gpm; 669 gpm; 826 gpm
Additional Information Available :		Stand Pipe Manifold : 6" x 5,000 psi (steel)

F.1.2. Transfer Pumps / Mixing Pumps		
Mixing Pumps		
Quantity	no.	1
Make / model		National Oilwell / Mission Magnum
Type / Size		3 x 2 x 14
Impeller Diameter	in	
Stuffing box seal	type	Mechanical
Power output	hp	13 hp
Driving motor speed	rpm	1175
Transfer Pumps		
Quantity	no.	2
Make / model		National Oilwell / 1 x Mission Magnum, 1 x Halco Supreme
Type / Size		8 x 6 x 14
Output Capacity	gpm	1000
Drive motor type		Electric
Power output	hp	100 hp
F.1.3. Booster Pump		
		See supercharging pump from F.1.1.1 and F.1.1.2 (same pumps)
Quantity		3
Make / Model		National Oilwell / 1 x Mission Magnum, 2 x Halco Supreme
Impeller Diameter	in	13 ½"
Stuffing box seal		Mechanical
Drive motor type		electric
Additional Information Available :		
F.1.4. Standpipe Manifold		
Quantity of standpipes	no.	2 ea
Standpipe ID	in	6" x 5,000 psi
Standpipe Manifold Valves		8 x 4 1/16" – 5,000 psi Demco type Gate
H-type standpipe manifold	yes/no	
Kill line outlet	yes/no	
Fill up line outlet	yes/no	Yes, 2" x 5,000 psi
Bleed-off line outlet	yes/no	Yes, 2" x 5,000 psi
Pressure Sensor Outlets		2 ea, 2" x 5,000 psi
Pressure Transmitter Outlets		2 ea, 2" x 5,000 psi
Mud Logging Sensor Outlet		2" x 5,000 psi
MWD Sensor Outlet		2" x 5,000 psi
Choke Manifold Outlet Connection		N/A
Cementing Manifold Outlet Connection		3" x 5,000 psi
All outlets complete with isolation Valve	yes/no	Yes
All outlets with connection ends no threaded	yes/no	Yes

F.1.5. Rotary Hoses		
Quantity	no	2 ea (as per API D – Spec.7)
Make / type		Gates
ID x length	in x ft	3 1/2"ID x 75 ft length
Working pressure	psi	5,000 psi
Snubbing lines	yes/no	

F.1.6. Cementing Hose		
Quantity	no.	1
Type (armor sheath/flexible steel pipe)		Copper state
Length	ft	60
ID	in	3"
Working pressure	psi	10,000 psi

F.1.7. High pressure Flexible Steel Pipe		
Make/type		N/A
Integral connection/fittings (non-threaded)		
ID	in	
Working pressure	psi	
Section length:	ft	
Quantity	no	
Section length	ft	
Quantity	no.	
Sweep swivels, no./make/type	no.	
Nom.size ID :	in	
Suitable for H2S service :	yes/no	

F.2. LOW PRESSURE MUD SYSTEM		
Mud system designed to handle Oil Base Mud	yes/no	Yes
All rubber seals Oil Resistant Type	yes/no	Yes

F.2.1. Mud Tanks		
Quantity:	no.	6
Total capacity (usable) :	bbl	1,721 bbl
Usable capacity No.1 :	bbl	375 bbl
Mud guns :	yes/no	Yes (2 x 3")
Usable capacity No.2 :	bbl	343 bbl
Mud guns :	yes/no	Yes (2 x 3")
Usable capacity No.3 :	bbl	343 bbl
Mud guns :	yes/no	Yes (2 x 3")
Usable capacity No.4 :	bbl	375 bbl
Mud guns :	yes/no	Yes (2 x 3")
Usable capacity No.5:	bbl	225 (Gel Tank)

Mud guns :	yes/no	Yes (2 x 2")
Usable capacity No.6:	bbl	62 (Slug Pit)
Type (active/reserve):		
Mud guns :	yes/no	Yes (2 x 2")
F.2.2. Pill / Slug Tank		See F.2.1. Mud Tank no.6
Capacity (usable)	bbl	62 bbls
Mud agitator	yes/no	Yes
Mud guns	yes/no	Yes
F.2.3. Trip/Stripping Tanks		
Trip Tank Location		Upper Pipe Rack
Capacity (usable)	bbl	45
Capacity / foot	bbl/foot	16 gal/in
Level indicator	yes/no	Yes, float type MD Totco
Electric pump make		Mission
Model / type		2" x 3"
Alarm and strip chart recorder	yes/no	Trip tank level recorder type Rental
Stripping Tank		N/A
F.2.4. Chemical Mixing Tank		
Capacity (usable)		30 gals
Cpcomplete electrical mixer	yes/no	No
F.2.5. Shale Shakers		
Primary		
Quantity	no.	4
Make / model		S 250 – 1
Screens		Brandt - type S BL 20 & 50 mesh, type BHX 50-60-80-110 mesh,type BLS 120 mesh
Cascading		
Quantity		
Make / model		
Type		
Nominal flow rate (total)		
F.2.6. Desander		N/A
Quantity		
Make / model		
Feed pump make/model		
Type/size		
Capacity:	gpm	
Drive motor :	hp	
Stuffing box seal	type	

Driving motor speed	rpm	
F.2.7. Desilter		
Quantity		N/A
Make / model		
Type		
Nominal flow rate :	bbl/min	
Number of cones	no.	
Size	in	
Feed pump make/model		
Type/size		
Capacity	gpm	
Drive motor :	hp	
Is pump dedicated to desander	yes/no	
F.2.8. Mud Cleaner		
Quantity		1
Make/model		XQJS300x2-100x16-G
Type		ATL-MC-28
Feed pump make/model		Mission
Type/size		Centrifugal
Capacity:	gpm	1000
Drive motor :	hp	100 HP
Impeller diameter	in	14
Stuffing box seal	type	Mechanical
Driving motor speed	rpm	1700
Screens		Brandt type , Pretension, 140-180-200 mesh
F.2.9. Mud/Gas Separator (Poor Boy)		
Make / type		YQF-1200/1.5
Gas discharge line ID:	in	10"
Gas discharge location, primary		Top of derrick
Mud seal height:	ft	7 ft
Mud Inlet Connection size (from Choke Manifold)	in/psi	4" x 5,000 psi
Mud Outlet Connection (to Shaker) size	in/psi	8" x 150 psi
F.2.10. Degasser		
Make/type		Welco / 5200
Nominal flow rate :	bbl/min	
Feed pump make / model		Mission
Type / size		Centrifugal
Capacity :	gpm	1000
Drive motor:	hp	100 HP
Impeller diameter	in	12
Stuffing box seal	type	Mechanical

Driving motor speed	rpm	1700
Gas discharging line		4", running to top of derrick
F.2.11. Mud Agitators		
Quantity		1
Make /model		Philadelphia / Ptero-10
Driven by motor of power		20 HP
Located in tanks		Mud tanks no. 1
F.2.11. Mud Agitators		
Quantity		3
Make /model		Philadelphia / 3834-s-pto
Driven by motor of power		15 HP
Located in tanks		1 ea Mud tanks no. 2, 3, 4
F.2.11. Mud Agitators		
Quantity :	no	3
Make /model		Philadelphia / 3833-s-pto
Driven by motor of power :	hp	5 HP
Located in tanks		2 in Mud Tank no. 5 (Gel Tank), 1 in Mud Tank no. 6 (Slug pit)
F.2.12. Mud Centrifuge		
Quantity	no.	N/A Space for Mud Decanting Centrifuge on Shaker Roof
Make / model		
Feed pump make / model		
Type/size		
Capacity	bbl/min	
Drive motor	hp	
Is feed pump dedicated to centrifuge(s) yes/no		
F.2.13. Mud Laboratory And Facilities		
Separate room	yes/no	Yes
F.3. BULK SYSTEM		
F.3.1. Barite/ Bentonite Silos		
Quantity	no	3 silos
Capacity of each silo:	ft ³	1,389 ft ³ / each
Type weight load cell		Weight indicator
F.3.2. Cement Silos		
Quantity	no	3 silos
Capacity of each silo	ft ³	1,389 ft ³ / each
Type weight load cell		Weight indicator
F.3.3. Surge Tank for Barite/Bentonite		
Quantity	no	2
Capacity of each tank	ft ³	60

Type weight load cell		Weight indicator
F.3.4. Mud Hopper		
Quantity	nos	2
Make / Model		Demco – 0612 type 6" x 3" Venturi
F.3.5. Surge Tank for Cement		
Quantity	no	1
Capacity of each tank ,	ft3	60
Type weight load cell		Weight indicator
F.3.6. Bulk Transfer System		
(see also C.1.8 - Compressed Air Systems)		
Independent air system for the silos and surge tanks consisting of a high-volume low-pressure compressor and air drier, yes/no:	yes/no	System Independent from Rig Air Service
Air Compressor	make	Ingersoll Rand ML-75 (7.5 bar, 1748 rpm, 456 cfm)
Barite Transfer feed rate	ft ³ /min	
Cement Transfer feed rate	ft ³ /min	

G. CASING/ CEMENTING EQUIPMENT		
G.1. CASING EQUIPMENT		
G.1.1. Drive Hammer		
Make/type:		N/A
Maximum casing/conductor OD:	in	
G.1.2. API Casing drifts		
		N/A
For casing OD, weight, quantity		
For casing OD, weight, quantity		
G.1.3. Clamp-on Casing Thread Protectors		
		N/A
For casing OD, quantity:	in / no.	
For casing OD, quantity:	in / no.	
For casing OD, quantity:	in / no.	
For casing OD, quantity:	in / no.	
G.1.4. Side Door Casing Elevator		
		N/A
Quantity :	no.	
For OD casing :	in	
Make / type:		
Capacity :	st	
Quantity :		
	no.	

For OD casing :	in	
Make / type:		
Capacity :	st	
Quantity :	no.	
For OD casing :	in	
Make / type:		
Capacity :	st	
G.1.5.Single Joint Casing Elevators		N/A
Quantity:	no.	
For OD casing:	in	
Make/type:		
G.1.6.Slip Type Elevator / Spiders		N/A
Quantity:	no.	
Make / type:		
Pneumatic/manual:		
Capacity :	st	
Slips for OD casing sizes :	in	
Quantity:	no.	
Make / type:		
Pneumatic/manual:		
Capacity :	st	
Slips for OD casing sizes :	in	
Quantity:	no.	
Make / type:		
Pneumatic/manual:		
Capacity :	st	
Slips for OD casing sizes :	in	
G.1.7.Casing Slips		N/A
Quantity:	no.	
Make/type:		
For OD casing:	in	
Quantity:	no.	
Make/type:		
For OD casing:	in	
Quantity:	no.	
Make/type:		
For OD casing:	in	

G.1.8.Casing Bowls		N/A
Quantity:	no.	
Make/type :		
For OD casing (max/min) :	in / in	
Quantity:	no.	
Make/type :		
For OD casing (max/min) :	in / in	
G.1.9.Manual Casing Tongs		N/A
Quantity:	no.	
Make/type :		
For OD casing (max/min) :	in / in	
G.1.10. Power Casing Tongs		N/A
Quantity:	no.	
Make/type :		
With jaw for OD casing (max/min) :	in / in	
Max output torque:	ft - lbs	
Torque indicator:	yes/no	
Back-up arm:	yes/no	
G.1.11. Power Unit for Casing & Tubing Tongs		N/A
Quantity:	no.	
Make/type:		
Capacity (ea.):	gpm	
Output pressure:	psi	
Dedicated unit:	yes/no	
G.1.12. Casing Circulating Head (Swedge)		N/A
For OD casing	in	
Connection type:	top/bottom	
G.1.13. Casing spears (International)		
Quantity :	no.	
Make/type :		
For OD casing:	in	
For casing weight:	lbs/ft	
Pack-off:	yes/no	
G.1.14. Casing cutting and Beveling machine		N/A
Quantity:	no.	
Make/type :		

For OD casing (max/min) :	in / in	
Quantity:	no.	
Make/type :		
For OD casing (max/min) :	in / in	
Quantity:	no.	
Make/type :		
For OD casing (max/min) :	in / in	
G.1.15. Crossover to Handle Casing with Drill Pipe		
Quantity :	no.	N/A
For OD casing:	in	
Casing connection type:		
Drill pipe connection type:		
Rated capacity:	st	
G.1.16. Casing Scrapers		N/A
Quantity:	no.	
Make:		
For OD casing:	in	
For casing weight:	lbs/ft	
OD body:	in	
Connection type:		
Blade type (roller/fixed):		
G.2. CEMENTING EQUIPMENT		N/A
G.2.1.Cement Unit		Space for Cementing Unit (3-rd party service) : 40 ft x 16 ft, Portstern Main Deck
Owner:		
Free placement basis:	yes/no	
Make / type:		
Number of triplex pumps:	no.	
Maximum working pressure:	psi	
Maximum flowrate (total):	bbl/min	
Unit powered by Electric / diesel		
Recirculation mixing system:	yes/no	
Capacity:	bbl	
Motor power :	hp	
Liquid additive system :	yes/no	
Premix / batch tank	USgal/min	N/A Space for Cement Batch Mixer Tank on Main Deck
Quantity:		
Capacity :	bbl	
Pressure recorder:		
Densitometer recording device:		
D.C. Motor for Cementing Unit		

G.2.2.Cementing Manifold		
Discharge manifold working pressure	psi	10,000
Cement pump discharge lines min. ID		Two independent Steel lines
Cement pump disch. lines working pressure		10,000 min
Lines from Cement Unit to Rig Floor	no	2
Flexible Section		3" x 10,000 psi Copperstate hose
Rigid Section		3" x 10,000 psi Heavy black (API cert.)
G.2.3.Cementing Standpipe		
Quantity:	no.	1 ea
Working pressure:	psi	10,000 psi
ID :	in	3 1/16"
Connection to choke manifold :	yes/no	Yes
Rig Floor Cementing Manifold Valves		6 x 2 1/16" – 10,000 psi Cameron Low Trq. (flanged)
Auxiliary outlets		
Kill Line Outlet size		2" x 10,000 psi
Pressure Sensor Outlet		2" x 10,000 psi
Pressure Transmitter Outlet		2" x 10,000 psi
Choke Manifold Outlet connection		3 1/16" x 10,000 psi
All outlets complete with isolation Valve	yes/no	Yes
All outlets with conn. ends no threaded	yes/no	Yes
G.2.4.Cementing Kelly		
		N/A
Quantity		
Nominal size OD		
Total length		
Working length		
Connection type		
Cement head		
G.2.5.Cementing Tubing		
		N/A
Size:	in	
Length (total):	ft	
X-overs to drillpipe specified in section D.1.3	yes/no	

H. INSTRUMENTATION /COMMUNICATION		
H.1. DRILLING INSTRUMENTATION AT DRILLER'S POSITION		
H.1.1. Weight Indicator		
Make / Type:		Martin Decker – MD Totco / type EB
Sensor type:		Dial
Calibrated for no. of lines strung (yes / no)		Yes
H.1.2. Standpipe Pressure Gauges		
Quantity:	no.	2ea
Make / type:		MD Totco / type 4
Maximum pressure reading:	psi	5,000 psi
H.1.3. Choke Manifold Pressure Gauge		
Quantity:	no.	2 ea
Make / type:		MD Totco
Maximum pressure reading:	psi	5,000 psi
H.1.4. Rotary Instrumentation		
H.1.4.1 Rotary Speed Tachometer		
Make/type:		Martin Decker / Gen Belt
Max. RPM:	rpm	0 -300 rpm
H.1.4.2 Rotary Torque Indicator		
Make / type:		Wagner
Maximum torque:	ft-lbs	40,000
H.1.5. Top Drive Instrumentation		
H.1.5.1 Tachometer		
Make / type:		Wagner / Mag Pu
Maximum RPM:	rpm	0 – 300 rpm
H.1.5.2 Torque Indicator		
Make / type:		Wagner
Maximum torque:	ft-lbs	40,000
H.1.6. Pump Stroke Counters		
Quantity:	no.	1ea mud pump
Make/type:		Martin Decker / proximity switch
Stroke indicator and cumulative stroke counter for each pump:	yes/no	Yes, Martin Decker, type MVCX4AP
H.1.7. Tong Torque Indicator		
Make / type:		MD Totco / H6AP-28

Maximum torque:	ft-lbs	
Pull indicator sensor	type	Load cell
Max. rated load	lbs	20,000
H.1.8. Pit Volume Totalizer		
Make / model:		MD Totco / Spectrum 1000
Loss / Gain indicator:	yes/no	Yes
Pit Volume Gain/Loss Recorder	yes/no	Yes
Pit level sensors installed in tanks	no.	1 each tank, type SONIC
H.1.9. Mud Flow Indicator		
Make / model:		MD Totco / Spectrum 1000
Audio Alarm:	yes/no	Yes
Visual Alarm :	yes/no	Yes
Sensor location:		type paddle
H.1.10. Trip Tank Indicator		
Make / model:		MD Totco / type SONIC
Chart recorder:	yes/no	Yes
Alarm:	yes/no	Yes (visual & audio)
H.1.11. Automatic Driller (see B.2.1)		
		N/A
H.1.12. Remote Choke Control Unit (see E.6.1)		
		2 (DP & CSG Pressure)
H.2. DRILLING PARAMETER RECORDER		
Quantity:	no.	1
Make/type:		MD Totco with pens type RIGSENSE (up to 20 channels)
Location-1:		Toolpusher office
Number of parameter recorded:	no.	8
Parameter recorded:		SPM1, SPM2, SPM 3, Mud pressure, Weight, Rotary RPM,R.O.P., Rotary torque
H.3. INSTRUMENTATION AT CHOKE MANIFOLD		
H.3.1. Standpipe Pressure Gauge (Drill pipe pressure gauge)		
Quantity:	no.	2
Visible from choke operating position:	yes/no	yes
H.3.2. Choke Manifold Pressure Gauge (Casing pressure gauge)		
Quantity:	no.	2
Pressure transmitter	yes/no	Yes

Temperature indicator	yes/no	No
H.4. INSTRUMENTATION AT STANDPIPE		
H.4.1. STANDPIPE PRESSURE GAUGE		
Quantity:	no.	2
Pressure range:	psi / psi	10 – 5,000
Visible from driller's position:	yes/no	Yes
Visible from choke operating position:	yes/no	Yes
H.5. DEVIATION EQUIPMENT		
H.5.1. Deviation Recorder		
Quantity:	no.	2
Make / type:		TOTCO / Single shot
Deviation range:	degree/degree deg / deg	0-8 deg, 0-16 deg
H.5.2. Slickline Unit		
Make/type:		N/A
Line length (nominal):	ft	
Depth counter :	yes/no	
Wire size:	in	
Pull indicator :	yes/no	
H.6. RIG COMMUNICATION SYSTEM		
H.6.1. Rig Telephone System		
No. of stations:	no.	40
Make / type:		Mitel / SX 50
Explosion proof :	yes/no	
H.6.2. Hand Held VHF Radios		
Quantity:	no.	20 VHF Portable Radios (Standard HX 230-S)
Quantity intrinsically safe:	no.	
H.7. ENVIRONMENTAL INSTRUMENTATION		
H.7.1. Temperature Indicators		
Air temperature:	make / model:	Yes
H.7.2. Wind Speed/Direction Meter		
Make / model:		Yes
Recorder:	yes/no	Yes

H.8. EXTERNAL COMMUNICATIONS EQUIPMENT		
H.8.1. SSB Transceiver		
Quantity:	no.	1 SSB Radio Marine
Make / model:		Norco Communication / 120 TSO
H.8.2. Marine VHF Radio		
Quantity:	no.	1 VHF Radio Telephone
Make / model:		Sailor / RT 144AC
H.8.3. Satellite Communication System		
Make / model:		Starplus 303ex
Type:		Supplied & serviced by Petrocom GOM
H.8.4. Cellular		Starplus 303ex - Supplied & serviced by Petrocom GOM
Number of phone lines:	no.	
H.9. OBSTRUCTION MARKING FOR AIR NAVIGATION		
Day-Signalling on Derrick consisting of : painting of 1/3 of the upper part of the Derrick, white and orange alternatively		Yes
Day-Signalling on Legs consisting of : painting of the upper part of Legs, white and orange alternatively		Yes
Night-Signaling on Derrick (consisting of)		Yes (Red Lights)

I. PRODUCTION TEST EQUIPMENT		
I.1. BURNERS		
Make/type		
Quantity	no.	N/A
Capacity	bbl/day	
Weight		
Water requirement at 100 psi	bbl/min	
I.2. BURNER BOOMS		
Make/type		
Quantity	no	2
Lenght	ft	60 ft
Ignition system		Remote operated
I.3. PIPING ON BURNER BOOMS		
I.3.1. Oil Line		
ID	in	3"
Working pressure	psi	1,500 psi
I.3.2. Gas Line		
ID		3"
Working pressure		1,500 psi
I.3.3. Water Line		
ID		3"
Working pressure		250 PSI
Connection type at burner end		
Pressure gauge connection at barge end		
I.3.4. Air Line		
ID		2"
Working pressure		250 psi
I.4. FIXED PIPING FOR WELL TESTING		
I.4.1. Drill Floor to Separator Area		
Type (threaded/welded, both)		
Quantity		
Size ID		
Working pressure		
Connection on drill floor		
Connection at separator		
Number of valves/lines		
Size of valves		

H2S	
I.4.2. Separator Area to Burner Booms	
Service (oil/gas)	
Type (threaded/welded, both)	
Quantity	
Size ID	
Working pressure	
Connection at separator	
Connection at boom	
Number of valves/lines	
Size of valves	
H2S (yes / no)	
Valves installed near separator area for switching gas to either burner (yes / no)	
I.4.3. Water Lines to Burner Booms	
Type (threaded/welded/both)	
Quantity	
Size ID	
Working pressure	
Number of valves required	
Size of valves	
Pump source	
Rated line capacity at 300 psi	
I.4.4. Air System to Burner Booms	
Type (threaded/welded/both)	
Quantity	
Size ID	
Working pressure	
Non-return valves fitted (yes / no)	
Air source	
I.4.5. Oil Storage Tank To Offload	
Type (threaded / welded / both)	
Quantity	
Size ID	
Working pressure	
Connection at separator area	
I.4.6. Separator to Vent Stack of Rig	
Type (threaded/welded, both)	
Quantity	
Size ID	
Working pressure	
Connection type at separator area	

I.5. AUXILIARY POWER AVAILABILITY	
Power available for third Party Equipment yes/no	Yes
Max. output voltage	480 V
Max. output amperage	300 Amps
I.5.1. For Crude Transfer Pump	
Quantity	Yes
Volts	
Frequency	
Breaker , amp	
I.5.2. For Electric Heaters	
Quantity	Yes
Volts	
Frequency	
Breaker , amp	

J. WORKOVER TOOLS	Yes

K. ACCOMODATION	Yes
K.1. OFFICES	
K.1.1. Company Representative's Office	
Quantity	1 (one) office
Complete with desk, filling cabinets and other necessary furniture (yes / no)	yes
Unrestricted view of the drill floor (yes / no)	yes
K.1.2. Contractor's Representative's Office	
Quantity	1 (one) office
Quantity with unrestricted view of the drill floor , no	1 (one) office
K.1.3. Control Room	
Quantity	1 room
K.1.4. Radio Room	
Quantity	1 room (above accommodation)
K.1.5. Helicopter Ready Room	
Quantity	1
K.1.6. Hospital Room	

Number of beds/bunks	1
Dangerous drug locker (yes / no)	
Complete with all First Aid tools	Yes
Complete with resuscitators	Yes
It is possible the access with a stretcher	Yes
K.2. LIVING QUARTERS	
Comply with any Rules	IMO MODU and Italian Law no. 886 art. 30
Living Quarters are Positive pressurised	Yes
Living Quarters has a direct access way connected with machinery deck	No
K.2.1. Accommodations	
Total beds, no:	98 pax
Beds reserved to Company's People	35
Beds reserved to Contractor's People	63
Single bed rooms for Company's People	1
Complete with attached Toilet	Yes
Two bed rooms for Company's People	No
Complete with attached Toilet	
Four bed rooms for Company's People	6
Complete with attached Toilet	2 rooms yes, 4 rooms no
No. of beds per room (1,2,3, etc), no:	
No of rooms	
Toilets (private/shared/communal), no:	
Showers (private/shared/communal), no :	
K.2.2. Galley	
Quantity	1 galley
K.2.3. Mess Seating Capacity	
Main mess	17 seats
Aux. mess	18 seats
K.2.4. Meeting Rooms	
Quantity	1
K.2.5. Recreation Rooms	
Quantity	2
	Yes
Recreation facilities	Yes
TV	Yes
VCR	Yes
Pool Table	Yes
Pin Pong Table:	Yes
Computer:	Yes
Workout/Weight room	Yes

Other:	
K.2.6. Other Rooms	
Change rooms	Yes
Prayer room	
Service Company Office	Yes
L. SAFETY EQUIPMENT	
L.1. GENERAL SAFETY EQUIPMENT	
All safety equipment comply with any regulation	USCG, MMS, OSHA, IMO MODU CODE & Italian law no. 886
L.1.1. All Personnel Protective Gear	
Safety hats (contractor/everyone/not supplied)	Equipped (+ for 10 visitors)
Safety boots (contractor/everyone/not supplied)	Equipped
Safety clothing (contractor/everyone/not supplied)	
Ear protection (contractor/everyone/not supplied)	Equipped
Safety glasses (contractor/everyone/not supplied)	Equipped
Rubber gloves (contractor/everyone/not supplied)	Equipped
Rubber gloves – elbow length (contractor/everyone/not supplied)	Equipped
Rubber aprons (contractor/everyone/not supplied)	Equipped
Full-face visors (contractor/everyone/not supplied)	Equipped
Eye shields (for grinder) (contractor/everyone/not supplied)	
Dust masks (contractor/everyone/not supplied)	
Explosion proof hand torches (contractor/everyone/not supplied)	Equipped
Safety belts (contractor/everyone/not supplied)	Equipped
For handling chemicals	Equipped
For Oil Base Mud and Brine	Equipped
Wind socks	Equipped
L.1.2. Decontamination Stations	
L.1.2.1 Eye Wash Stations.	
Quantity - fixed	Available per requirements
Make / model	
Located at	
L.1.3. Derrick Safety Equipment	Escape line for Derrick man
Derrick safety belts	Yes
Make/model Contractor to Specify	Geronimo
L.1.4. Fresh Air Blowers (Bug Blowers)	
Quantity	3

Make / type	Portable
Classified for Hazardous area	Yes
L.2. GAS/FIRE/SMOKE DETECTION	
L.2.1. H2S Monitoring System	
Make / type	Detcon / TP-524
Calibration kit	Yes
H2S sensors installed	8 nos. Type diffusion and absorption
Sampling points at:	
- Bell nipple (yes / no)	Yes
- Drillfloor (yes / no)	
- Shale shaker (yes / no)	Yes
- Mud tanks (yes / no)	Yes
- Ventilation system into living quarters	Yes
- Other	
- Moon Pool Area	Yes
- Rig Floor	Yes
- Machinery Deck Air Intake	Yes
General Alarms at	
- Driller's console (audible / visual/both)	
- Engine room (audible / visual/both)	Both
- Mud room (audible / visual/both)	Both
- Shale Shaker room	Both
- Radio Room Roof	Both
- Rig Floor	Both
Central Alarm Panel	Yes
-Located at	Main panel location : Radio room Repeat panel location : Rig Floor
L.2.2. Combustible Gas Monitoring System	
Make / type	Detcon / FP-524
Combustible Gas Sensors installed	55 Heat, 36 Smoke (type Smoke/Heat Hard Wired)
Sampling points at	
- Bell nipple (yes / no)	Yes
- Shale shaker (yes / no)	Yes
- Mud tanks (yes / no)	Yes
- Ventilation system into living quarters (yes / no)	Yes
- Other	yes
- Moon Pool Area	Yes
- Rig Floor	Yes
- Machinery Deck Air Intake	Yes
Alarms at	
- Driller's console (audible / visual/both)	
- Engine room (audible / visual/both)	Both

- Mud room (audible / visual/both)	Both
visual/both)	yes
- Other	
- Shale Shaker room	Both
- Radio Room Roof	Both
- Rig Floor	Both
Central Alarm Panel	Yes
-Located at	Main panel location : Radio room Repeat panel location : Rig Floor
L.2.3. H2S Detectors (Portable)	
Quantity	2
Make / type	MSA / ORION
Quantity	5 Personal Electronic H2S Detectors
Make / type	MSA / Pulsar
L.2.4. CO2 Gas Detectors (portable)	
Quantity	2 Multigas Portable detectors
Make / type	MSA / Watchman
L.2.5. Fire/Smoke Detectors	
Make/type	Cercerus Pyrotronic / System 3 (sensors type Smoke)
Areas monitored	All Accomodation Spaces, Engine Room, Mud Pump Room, Mud Pit Room, SCR Room, Sack Storage
Monitoring Panel Locations	Rig Floor, Radio Room
L.3. FIRE FIGHTING EQUIPMENT	Fire Monitoring & Fighting System comply with Italian Lawno.886
L.3.1. Fire Pumps	
Quantity	2
Make / model	Grundfos / CR90-3A-G-A-V-KUHV
Type	50 HP
Output (each)	475.5 GPM each ; 316.3 ft pressure head
Location	Ware house, Sack room
L.3.2. Hydrants and Hoses	
Hydrants positioned such that any point may be reached by a single hose length from two separate hydrants	Locations : Rig Floor, Shale Shaker Room, Mud Pump Room, Engine Room, Living Quarters, Paint Locker
L.3.3. Portable Fire Extinguishers	Locations : Rig Floor, Cellar Deck area, Shale Shaker, Mud Pump Room, Mud Tank Room, Engine Room, SCR Room, Living Quarters, Paint Locker, Helideck (2 x 125 lb dry powder, 3x 15 lb CO2)
L.3.4. Fire Blankets	N/A
Quantity	

Location(s)	
L.3.5. Helideck Foam System	Yes
Quantity of monitors	2
Fire Fighting System comply with Rules	IMO MODU CODE & Italian Law DM-121
L.3.6. Fixed Fire Extinguishing System	
Protected spaces	
Engine room, type (Halon / CO2 / other)	CO2, remote controlled
Remote manual release located at	
Paint locker, type (Halon / CO2 / other)	CO2, remote controlled
SCR room type (Halon / CO2 / other)	CO2, remote controlled
L.4. BREATHING APPARATUS	
L.4.1. General Sets	
Quantity	15 Air Breathing Apparatus
Make	Scott
Type (demand / positive pressure)	30 min. pressure demand air packs
Cylinder duration	30 min
Spare air bottles	45
L.4.2. Escape Sets	N/A
Quantity	
Make	
Type	
L.4.3. H2S Cascade Stations	N/A
Quantity	
Make / type	
Located at	
L.4.4. Breathing Air Recharge Compressor	
Quantity	1
Make/type	MAKO 5406
L.4.5. Compressed Air Breathing Apparatus Trolley Unit	N/A
L.4.6. Breathing Air Purity Test Equipment	N/A
L.5. EMERGENCY FIRST AID EQUIPMENT	
L.5.1. First Aid Kits	
Quantity	yes

L.5.2. Resuscitators	
Quantity	yes
Charged (spare) oxygen cylinders	
L.5.3. Stretchers	
Quantity	yes
Type	
Located at	
L.6. HELIDECK RESCUE EQUIPMENT	Emergency Rescue tool box complete with all requested tools
Aircraft Axe (yes / no)	Yes
Large fireman's rescue axe (yes / no)	Yes
Crowbar (yes / no)	Yes
Heavy duty hacksaw (yes / no)	Yes
Spare blades (yes / no)	Yes
Grapnel hook (yes / no)	Yes
Length of wire rope attached (yes / no)	Yes
Quick release knife (yes / no)	Yes
Bolt cropper (yes / no)s	Yes
Fireman's outfit (yes / no)	4
CO2 Lance (yes / no)	Yes
L.7. EMERGENCY WARNING ALARMS	
Approved system to give warning of different emergencies	Yes
Activated from drill floor	Yes
L.8. SURVIVAL EQUIPMENT	
L.8.1. Life boats	
Make / type	Norwegian Maritime Equipment AS / NorMar-Telb 7.50A T
Quantity	2
Capacity	68 pers / lifeboat (75 kilos each)
Fire protection	yes
Comply with any Regulation	IMO MODU Code
Certified by	BV
L.8.2. Life rafts	
Make / type	BF Goodrich
Quantity	4
Capacity	25 pers each
Davit launched (yes / no)	Yes
Comply with any Regulation	IMO MODU Code
Certified by	USCG
L.8.3. Rescue Boat	

Make / Type	Inflatable
L.8.4. Personal Floatation Devices	
Make/type	Safeguard Corp / IPFD (certified ABS)
Quantity	165
L.8.5. Life Ring Buoys	
Make/type	ABS approved
Quantity total	10
Self-igniting light	8
Self-activated Smoke Signals	2
Buoyant Lifeline threefold the distance from the main deck to sea level	Yes
L.8.6. Work Vests	
Quantity	Billy Pugh (ABS approved)
Quantity	20
L.8.7. Escape Ladders/Nets	
Quantity	Yes
Make / type	
Quantity	rigid ladders, knotted lines, scrambling net
L.9. HAZARDOUS AREA CLASSIFICATION	
Which Rules the UNIT follows	IMO MODU CODE, ABS/UNMIG
Regulation applicable for electric component installed in areas classified "HAZARDOUS"	As per 886 Italian Law
Each Electrical component installed in areas classified "HAZARDOUS" is certified	Yes, as per 886 Italian Law, i.e. Certified by an European Certifying Authority
Ventilation into enclosed Hazardous area	
Shale Shaker Room - Air change rate	No- open shed
Mud Pit Room - Air change rate	13,400 cfm supply – 19,740 cfm exhaust
Mud Pump Room - Air change rate	54,200 cfm supply – 45,500 cfm exhaust
Engine Room - Air change rate	79,950 cfm supply – 57,840 cfm exhaust
Living Quarters - Air change rate	N/A Recirculated

M. POLLUTION PREVENTION EQUIPMENT	
The Unit is "Zero Pollution" fitted	Yes
Rotary Table Drainage	Yes
Draining Fluids discharging into	Sump or to collection tanks
Rig Floor Drainage	Yes
Draining Fluids discharging into	Sump or to collection tanks
Main Deck Drainage	Yes
Draining Fluids discharging into	Sump or to collection tanks
Helideck Drainage	Yes
Draining Fluids discharging into	Drill water tank
Sand Traps Drainage	Yes
Draining Fluids discharging into	To Company provided collection tanks
Trip Tank Drainage	Yes
Draining Fluids discharging into	To Company provided collection tanks
Rat & Mouse hole Drainage	Yes
Draining Fluids discharging into	To collection tanks
Wellhead area Drainage	Yes
Draining Fluids discharging into	Drain to collection tanks
Waste liquid collection tanks	1 x 136 bbls fitted with 1 agitator, 1 centrifuge MI Swaco 414 and 1 mono pump
Waste liquid transfer pump	1 centrifugal pump
Bilge system	Into Engine Room, Mud Pump Room, Cementing Room and allwork space on Main Deck
Skimmer tanks	1 x 40 bbls
Collection system of drilling cuttings	N/A
From Gumbo Trap discharging into	
From Shale Shakers discharging into	
From Desander/Desilter discharging into	
From Mud Cleaners discharging into	
From Decanting Centrifuges discharging into	
Space for drilling cuttings Holding Tanks	
M.1. SEWAGE TREATMENT	
Quantity	1
Make/Model	Omni Pure 12 MC
System type	Electro-chemical reaction
M.2. INCINERATOR	
Make / model	
System type	
M.3. OILY WATER SEPARATOR	
Quantity	1
Make / model	HELI-SEP / 2000-OCD