

SELECTIVEMARINE ORISTSETIMEYIN

IADC STANDARD FORMAT EQUIPMENT LIST

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A. UNIT SPECIFICATIONS

GENERAL

Unit name : Oritsetimeyin

Rig type	:	Self-Elevating Mobile Offshore Drilling Unit
Unit / design / shape	:	Friede & Goldman Super M2
Unit flag	:	Panama
Unit classification	:	ABS, A-1 Self Elevating Drilling & IMO
IMO Certification	:	Modu A649
- Which code version	:	IMO –Code 2001 Resolution
Year of construction	:	2008
Construction yard	:	M.I.S. shipyard in Sharjah

A.1 MAIN DIMENSIONS / TECHNICAL DESCRIPTION

Light ship	kips	:	18,917.70
Displacement at load line	kips	:	26,426.89 @ 5.16
Overall length of unit (inc. heli deck)	ft	:	291 ft
Overall width of unit (inc. anchor racks)	ft	:	196.9 ft
Hull length	ft	:	196 ft
Hull width	ft	:	183 ft
Hull depth	ft	:	25 ft
Number of legs/length	no. x ft	:	3
Leg length available below hull	ft	:	362
Type of leg	:	:	Triangular cross section leg structure
Leg spacing (centre to centre):			
- Transverse	ft	:	120
- Longitudinal	ft	:	115
Independent leg or mat	:	:	Independent Leg
Spud can diameter	ft	:	50
Spud can height	ft	:	15
Spud can jetting system	yes/no	:	Yes
- Bottom jets	yes/no	:	Yes
- Top jets	yes/no	:	Yes
Cantilever or slot	:	:	Cantilever
Skid-off	yes/no	:	No
Cantilever envelope:			
- Reach aft, from/to	ft/ft	:	30 x 50 (34 ft to stove pipe deck)
- Transverse, port/stbd	ft/ft	:	0 x 15
Max cantilever load	kips	:	2200
Max hook load	kips	:	1500
Max rotary load	kips	:	1500
Max setback load	kips	:	750
Fuel consumption (avg. drilling)	bbl/day	:	130
Accommodation for maximum number personnel	no.	:	110

A.2 STORAGE CAPACITIES

Fuel	bbl	:	4150
Drilling water	bbl	:	5455
Potable water	bbl	:	2490
Mud processing tank	bbl	:	2286
Active liquid mud	bbl	:	1926
Independent oil base mud storage:	bbl	:	use of reserve pits 2286 bbls
- Agitated	yes/no	:	no
Independent base oil storage	bbl	:	920
Independent brine storage	bbl	:	920
- Heavy brine accepted (e.g. bromide)	yes/no	:	
Bulk bentonite/barite	ft ³	:	4 x 50
Bulk cement	ft ³	:	2 x 50
Sack storage	sacks	:	5,000
Pipe rack	ft ²	:	540 lbs

- Main deck	ft :	425 lbs/ft2
- Maximum load capacity	lb/ft ² :	540 lbs/ft2 (capacities outside pipe racks are)
- Lower rack dimensions	ft x ft :	
- Maximum load capacity	lb/ft ² :	540 lbs/ft2
Other rack (port)	ft x ft :	
- Maximum load capacity	lb/ft ² :	540 lbs/ft2
Other rack (starboard)	ft x ft :	
- Maximum load capacity	lb/ft ² :	540 lbs/ft2
Miscellaneous storage area	ft ² :	
Operator storage area	ft ² :	
Preload capacity	kips :	
- Time to fill and dump preload	hrs :	

A.3 JACK-UP SYSTEMS

A.3.1 Jacking Systems

Make/type	:	NOV type D60H Electric Racks
No. of jacks or pinions	no. :	54 pinion jacking system
Maximum jacking load	kips :	318 MT (669 kips)
Jacking speed	ft/min :	0.56 m/ min (1.5 ft/min)
Rack chocks available	yes/no :	Yes
- Required for field tow	yes/no :	No
- Required for ocean tow	yes/no :	Yes

A.3.2 Raw Water Systems

Pump location (water tower or leg)	:	Leg
Suction distance below hull (max)	ft :	120
Salt water service pump:		
- Quantity	no. :	3
- Make-type	:	Flowserve – QN122-1A + MI10-600-2
- Capacity	bbbl/min :	2400 GPM (57 bbl/min @ 120 ft)
- @ pressure	psi :	102
Horsepower	hp :	125 hp

A.4 OPERATIONAL CAPABILITIES

Max designed water depth capability	ft :	300
Outfitted max water depth capability	ft :	300
Normal min water depth capability	ft :	19.4ft
Draft at load line (deepest)	ft :	15
Drilling depth capability (rated)	ft :	25,000
Transit speed towed (historical average)	kts :	New Rig, No historical data
Leg (spud can) below hull in transit	ft :	0
Max leg length permitted in tow:		
- Ocean tow	ft :	411
- Field tow	ft :	352
Number of tugs for field tow	no. :	3
Associated min bollard pull per tug	lt :	98
Anti-roll system	yes/no :	No
Maximum preload reaction per leg	kips :	24923.89 Kips
Bearing pressure at max preload	lb/ft ² :	
Thrusters	yes/no :	No
- Quantity	no. :	N/A
- Fixed/Azimuthing	:	N/A
- Total horsepower per thruster	hp :	N/A

A.5 VARIABLE LOAD CAPACITY (VL) (Exclusive of drilling loads)

Transit VL capacity	mt :	2400
Drilling VL capacity	mt :	4276
Survival VL capacity	mt :	2720 Elevated
Jacking VL capacity	mt :	2400

A.6 ENVIRONMENTAL LIMITS

Transit:

- Max. Wave height	ft :	50` @ 300` 54` @ 250`
- Max. Wave period	sec :	13.5 13.5
- Max. Wind velocity	knots :	100 @ 1 Min Intervals
- Max. Current velocity	knots :	
- Max. Heave (double amplitude)	ft :	
- Max. Pitch (double amplitude)	degrees :	6° single amplitude (field) 15° single amplitude (ocean) + 120% of the gravity load at that angle of inclination

- Max. Roll (double amplitude)	degrees :	
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Working Water Depth	ft :	300
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Drilling:

- Air gap (below bottom main hull)	ft :	37
- Max. Wave height	ft :	50
- Max. Wave period	sec :	13.5 (sec)
- Max. Wind velocity	knots :	100
- Max. Current velocity	knots :	

Survival:

- Air gap (below bottom main hull)	ft :	37
- Max. Wave height	ft :	50
- Max. Wave period	sec :	13.5 (sec)
- Max. Wind velocity	knots :	100
- Max. Current velocity	knots :	

Working Water Depth	ft :	250
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Drilling:

- Air gap (below bottom main hull)	ft :	44
- Max. Wave height	ft :	
- Max. Wave period	sec :	
- Max. Wind velocity	knots :	
- Max. Current velocity	knots :	

Survival:

- Air gap (below bottom main hull)	ft :	44
- Max. Wave height	ft :	54
- Max. Wave period	sec :	13.5
- Max. Current velocity	knots :	100

A.7 MOORING SYSTEM

A.7.1	Anchor Winches	:	Single Drum C/W Spooling Device 800 M x 38 mm dim wire rope
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Quantity	no. :	4
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Make/model	:	NORECRANE NCW-MW /SD-30T
Type (electric/hydraulic/diesel)	:	Electric
Total HP per winch	hp :	480V / 3Ph 60 Hz / 55KW MT
Rated pull	tn :	30 ton @ 9 mtr/min, 5 ton @20 mtr/min
Control locations (local/remote/both)	:	both

A.7.2 Anchors

Quantity	no. :	4
Make/type	:	Delta Flipper
Weight	lt :	7 ton

A.7.3 Anchor Lines

Wire:		
- Quantity (installed + spare)	no. :	4
- Make / type	:	TBA/RRL galvanized / Haggie Rand
- Construction	:	EIPS, 6 x 36 IWRC
- Diameter	in. :	1 5/8" (38 mm)
- Useful length (nominal)	ft :	1500 ft

A.7.4 Towing Gear

Towing bridle size	in. :	2 x 2 1/2" x 60 ft w/2 chafe chains 2 x 40 mtr 2" wire pennant w/quick release bracket
Hook-up system	:	
Rating	lt :	
Spare bridle	yes/no :	Yes

A.7.5 Supply Vessel Mooring System

System description	:	Port and starboard with mooring lines & chains
Rating	lt :	
Location (port/stbd/both)	:	

A.8 MARINE LOADING HOSES

Location of loading manifolds (port/stbd/both)	:	both
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A.8.1 Potable Water Hoses

Quantity	no. :	2 x 150 ft Segmented (90° + 60° sections).
Size	in. :	3
Make/type	:	TBA / type TBA
Color coding	yes/no :	TBA / TBA
Make/type connection	::	TBA / 3" Fig. 200 female union C/W 3" Fig 200 male blind cap with nut

A.8.2 Drilling Water Hose

Quantity	no. :	2 x 150 ft Segmented (90° + 60° sections).
Size	in. :	4
Make/type	:	TBA / type TBA
Color coding	yes/no :	TBA / TBA
Make/type connection	:	TBA / 4" Fig. 200 female union C/W 4" Fig 200 male blind cap with nut

A.8.3 Gas Oil Hose (Diesel Fuel)

Quantity	no. :	2 x 150 ft Segmented (90` + 60` sections).
Size	in. :	3
Make/type	:	Dunlop Gacord / Type 14 (soft wall)
Color coding	yes/no :	Yes/ Brown
Make/type/connection	:	Todo / 3” Q/R Self Seal Cap

A.8.4 Barite-Bentonite Hoses

Quantity	no. :	2 x 150 ft Segmented (90` + 60` sections).
Size	in. :	5
Make/type	:	TBA / type TBA
Color coding	yes/no :	TBA / TBA
Make/type connection	:	TBA / 5” Fig. 200 female union C/W 5” Fig 200 male blind cap with nut

A.8.5 Cement Hose –H.P.

Quantity	no. :	2 x 150 ft Segmented (90` + 60` sections).
Size	in. :	5
Make/type	:	TBA / type TBA
Color coding	yes/no :	TBA / TBA
Make/type connection	:	TBA / 5” Fig. 2202 female union C/W 5” Fig 2202 male blind cap with nut

A.8.6 Base Oil Hose

Quantity	no. :	2 x 150 ft Segmented (90` + 60` sections).
Size	in. :	4
Make/type	:	Dunlop Gacord /Type 14 (soft wall)
Color coding	yes/no :	Yes / Red
Make/type connection	:	Todo / 4” Q/R Self Seal Cap

A.8.7 Brine Hose

Quantity	no. :	2 x 150 ft Segmented (90` + 60` sections).
Size	in. :	4
Make/type	:	Dunlop Graco / Type 301 (soft wall)
Color coding	yes/no :	Yes/ Yellow Longitudinal Stripe
Make/type connection	:	Anson / 4 “ Fig 200 Male Sub & Nut Hammer

A.8.8 Other

Air / Powder		
Quantity	no. :	2 x 150ft Segments,
Size	in. :	2
Make/type	:	TBA / type TBA
Color coding	yes/no :	TBA / TBA
Make/type connection	:	TBA / 3” Fig 200 female sub C/W 2 ea. 3” Fig. 200 male blind cap with nut

A.9 CRANES, HOIST AND MATERIAL HANDLING

A.9.1 Cranes, Revolving

Quantity	no. :	3
Make	:	AMCLYDE 10000 XHD

Type		Pedestal bearing diesel/hydraulic
Location (port-fwd)	:	Port, Starboard, starboard inboard
Boom length	ft :	Port 100' Starboard 100' starboard in 120'
Hook reach below main deck (block/whip)	ft/ft :	125 ft
Block capacities and hoisting speeds:		
- Load/radius/speed (min radius)	st/ft(ft/sec) :	119.000 lbs – 6 part line 22.6 ft radius, 82 degr. Angle.
- Load/radius/speed (max radius)	st/ft (ft/sec) :	
Whip capacity and hoist speed	st/ft (ft/sec) :	
Hook load indicator automatically corrected		
For boom angle	yes/no :	Model MIPEG 2000 safe load indicator system
- Alarm (audible, visual, both)	:	both
Automatic brake	yes/no :	yes
Safety latch on hooks	yes/no :	yes
Crown saver (limit switch)	yes/no :	yes, limit switch
Boom illumination	yes/no :	2 ea floodlights, 400 watt mercury VAPOR 480V, 60 Hz, 3 Ph

A.9.2 Forklifts

Quantity	no. :	1
Make/type	:	Toyota
Rated capacity	lt :	2 ton Capacity
Explosion proof	yes/no :	Yes

A.9.3 Monorail Overhead Cranes

Quantity	no. :	Yes, over engines, mud pumps & under cantilever
Make	:	
Type	:	
Rated capacity	st :	
Location(s)	:	

A.9.4 Air Hoists / Derrick Winches

A.9.4.1 Rig Floor Winches (Non Man-riding)

Quantity	no. :	3
Make	:	Ingersoll Rand
Type	:	FA5A-24XK1P-E
Rated capacity	lbs :	x 2 10.000 lbs x 1 5000 lbs
Wire diameter	in. :	3/4"
Automatic brakes	yes/no :	yes
Overload protection	yes/no :	no
Automatic spooling	yes/no :	no

A.9.4.2 Monkey Board Work Winch

Quantity	no. :	2
Make	:	Ingersoll Rand
Type	:	EUABPT30-P-E
Rated capacity	lbs :	2000 lbs
Wire diameter	in. :	1/2"
Automatic brakes	yes/no :	yes
Overload protection	yes/no :	no

A.9.4.3 Rig Floor "Man-Riding" Winch (Utility)

Quantity	no. :	2
Make	:	Ingersoll Rand FA150KGIMR-12-1-E
Rated capacity	lbs :	150 kg
Wire diameter	in. :	3/8"
Non-twisted wire	yes/no :	yes
Automatic brakes	yes/no :	yes
Overload protection	yes/no :	yes
Automatic spooling	yes/no :	yes
Certified for man-riding	yes/no :	yes

BOP Service Area "Man-Riding" Winch (Utility)

Quantity	no. :	2
Make	:	Ingersoll Rand
Type	:	FA150KGIMR-12-1-E
Rated capacity	lbs :	150 kg
Wire diameter	in. :	3/8"
Non-twisted wire	yes/no :	Yes
Automatic brakes	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. :	4
Make	:	Ingersoll Rand
Type	:	FA2.5A-24MK1P-E
Rated capacity	lbs :	5000 lbs/2500lbs
Wire diameter	in. :	5/8"
Automatic brakes	yes/no :	yes
Overload protection	yes/no :	no
Automatic spooling	yes/no :	no
Certified for man-riding	yes/no :	no
Locations	:	2 x cellar deck x 5t , 2 x forward deck x 2.5t

Quantity	no. :	1
Make	:	Ingersoll Rand
Type	:	EU-P-E
Rated capacity	lbs :	2000 lbs
Wire diameter	in. :	1/2"
Automatic brakes	yes/no :	no
Overload protection	yes/no :	no
Automatic spooling	yes/no :	no
Certified for man-riding	yes/no :	no
Locations	:	DC pull back winch on rig floor

A.9.4.5 BOP Hoists (see E.10.1)

A.9.5 Transfer Baskets/Containers

A.9.5.1 Personnel Transfer Baskets

Quantity	no. :	2
Make/type	:	Billy Pugh

A.10 HELICOPTER LANDING DECK

Location (fwd/aft/port/stbd) : Forward bow
 Dimensions ft x ft : 74 ft polygon
 Perimeter safety net yes/no : yes
 Deck Load capacity lb/ft² : 20.400 lbs, 40 lbs/ft2
 Maximum helicopter weight lbs : 20.400 lbs
 Designed for helicopter type : Sikorsky-61N
 Tie down points yes/no : yes
 Covered by foam fire system (see L.3.6) yes/no : yes

A.10.1 Helicopter Refueling System : None

A.11 AUXILIARY EQUIPMENT

A.11.1 Water Distillation

Quantity no. : 2
 Make/type : Alfa Laval
 Dolphin 30
 Make/type : Corodex
 SWR08K
 Capacity (each/total) US gal/day : 30 cu.m/day each
 U.V. Sterilizer no. : 2
 Make / Type : Berson
 Bersonline 20

A.11.2 Boilers : not equipped

A.11.3 Air Conditioning

Make/type :
 Capacity (total system) tons : 117 ton
 Max temperature rating F : 70 deg winter inside, 75 deg summer outside

A.11.4 Electric Welding Sets

Quantity no. : 2
 Current capacity amp : 400 Amp
 Make/model : Lincoln ideal arc DC-600
 - Type (fixed/portable) : fixed

B. GENERAL RIG SPECIFICATIONS

B.1 DERRICK AND SUBSTRUCTURE

B.1.1 Derrick/Mast

Make/type : Loadmaster offset rotary bolted beam leg

Rated for wind speed		
- With full set back	knots :	70 knots (650 KIPS setback)
- With no set back	knots :	100 knots
Height	ft :	160 ft
Dimensions of base	ft x ft :	32 ft x 35 ft aft face vertical to crown
Dimension of crown	ft x ft :	14 ft x 14 ft
Gross nominal capacity	lbs :	
Static hook load	lbs :	1.500.000 lbs
Maximum number of lines	no. :	14
Ladders with safety cages and rests	yes/no :	yes
Platform for crown sheaves access	yes/no :	yes
Counter balance, system for rig tongs and		
Pipe spinning tongs	yes/no :	yes
Lighting system explosion proof	yes/no :	yes

B.1.2 Racking Platform

Make/type	:	Loadmaster
Total current simultaneous capacity-drill pipe:		
- 5-1/2" DP	ft :	31,713 (341 stands)
Total current simultaneous capacity-drill collars:		
- 8-1/4" DC	ft :	744 (9 stands)
Tubing Belly board	yes/no :	yes

B.1.3 Automatic Pipe Handling

B.1.4 Casing Stabbing Board

Make/type	:	Loadmaster heavy duty
Adjustable from/to height above rotary	ft / ft :	24'

B.1.5 Substructure

Make/type	:	Friede & Goldman / M.I.S. shipyard
Drill floor height (above main deck)	ft :	37.5 ft
Length	ft :	60 ft
Width	ft :	44 ft
Setback capacity	kips :	900 kips
Simultaneous setback-hook load capacity	kips :	2300 kips
Rotary beam capacity (total)	kips :	750 kips
Clear height below Rotary table beams (To main deck)	ft :	

B.1.6 Weather Proofing

Rig floor windbreaks	yes/no :	Yes (around draw works only)
- Height	ft :	
Derrick man windbreaks	yes/no :	No
- Height	ft :	
Around process pits	yes/no :	
- Height	ft :	

B.1.7 Derrick TV Camera System

Camera located at	:	Derrick/Monkey board & casing stabbing board, rig floor & cellar deck
Make/type	:	
Zoom/pan/tilt-function	yes/no :	
Monitor located at	:	Drillers console, TP offices, Co-man office

B.2 DRAWWORKS AND ASSOCIATED EQUIPMENT

B.2.1 Drawworks

Make/type	:	Varco ADS-10D
Motors make/type	:	General Electric GEB-22A2-2
- Quantity	no. :	2
Rated input power	hp :	1400
Drum size (diameter & length)	in x in :	36" x 171"
Drum type (grooved/smooth)	:	Lebus groove
- For drill line size	in :	1-5/8"
Brake type (disk/drum)	:	disk
Max line pull (14 lines)	lbs :	1.190.000 lbs
Max line pull (12 lines)	lbs :	1.048.000 lbs
Max line pull (10 lines)	lbs :	897.000 lbs
Makeup cathead type	:	Varco HC-26EV, 35.000 lbs
Breakout cathead type	:	Varco HC-26EV, 35.000 lbs
Crown block safety devices	yes/no :	yes
- Make/type	:	V-ICIS electronic crown/floor saver and analog crown-o-matic.
- Make/type	:	Primary device = varco digital secondary = varco analog
Independent fresh water cooling system for Draw works and electric brake	yes/no :	Varco closed steel tank w/ 2 ea centrifugal pumps, 600 gpm ea.
Automatic driller	yes/no :	yes
Make/type	:	Varco

B.2.2 Auxiliary Brake

Make	:	On an ADS-10D draw works the VFD system works as a velocity control system
Model	:	
Independent back-up system type	:	

B.2.3 Sand line : not equipped

B.2.4 Slick line Unit

Make/model	:	Mathey Surveyor 2
Wire length (nominal)	ft :	30000 ft
Wire size	in. :	0.092
Breaking strength	lbs :	1840 lbs
Safe working load	lbs :	2500
Depth counter	yes/no :	Yes
Pull indicator	lbs :	

B.3 DERRICK HOISTING EQUIPMENT

B.3.1 Crown Block

Make/type	:	Load Master
Rated capacity	st :	750 mT
No. of sheaves	no. :	6+2
Sheave diameter	in. :	60"
Sheave grooved for line size	in. :	1 5/8"

B.3.2 Travelling Block

Make/type : Load Master
 Rated capacity st : 750 mT
 No. of sheaves no. : 7
 Sheave diameter in. : 60”
 Sheave grooved for line size in. : 1 5/8 “

B.3.4 Top Drive

Make/type : Integrated Swivel/Top Drive System
 TDS-8SA
 Rated capacity st : 750 mT
 Test/working pressure psi/psi : 10.000 / 7500psi
 Gooseneck and wash pipe min ID in. : 4.25
 Connection type R-Hand in. : 7 5/8ths reg
 Access fitting for wire line entry on top of
 Gooseneck yes/no : Yes

B.3.5 Drilling Line

Diameter in. : 1 5/8 “
 Construction : IWRC
 Length (original) ft : 7500 ft
 Drilling line reel yes/no : Yes
 - Drum cover yes/no : No
 - Drilling line drum power driven yes/no : Yes
 Spare drilling line yes/no : No
 - Location (rig, shore, etc) :
 Roller guides : No

B.3.6 Deadline Anchor Yes

Make/type : NOV Dresco FRH 150-CE
 Weight sensor line dampener

B.3.7 Block Guidance System

Make/type : Varco guide rail system.
 Designed for minimum reactive TQ of 63.000
 ft/lbs at any height of the derrick

B.4 ROTATING SYSTEM

B.4.1 Rotary Table

Make / type : Varco BJ/RST 495 hydraulic operated rotary
 support table w/dynamic slip ring.
 Maximum opening in. : 49-1/2”
 Rated capacity st : 1000 mT
 Two speed gearbox yes/no : no
 Emergency chain drive yes/no : no
 Driven by an independent electric motor yes/no : no, hydraulic motor driven
 - Electric motor make/type :

- Output power hp :
 - Maximum continuous torque ft/lbs : 45.000 ft/lbs
 Drip pan/mud collection system yes/no : yes

B.4.2 Master Bushings

Make/type : Varco
 Inserts bowls (see G.1.8) : API bowls # 1, 2 & 3; 20" & 30" bushings

B.4.4 Top Drive

Make / type : Varco TDS-8SA
 Type (electric/hydraulic) : Electric (AC)
 Rated capacity st : 750 mT
 Test/working pressure psi/psi : 7500 psi
 Output power hp : 1150 Hp
 Maximum continuous torque ft-lbs : 62.250 ft/lbs @ 94 rpm
 Max intermittent torque ft-lbs : 94.000 ft/lbs
 Two speed gear box yes/no : no
 Maximum rotary speed rpm : 270
 Remote operated Kelly cock yes/no : yes
 Cooling system type :
 Upper Inside BOP (see also D.1.15)
 - Quantity no. : 1
 - Make/type : Varco pneumatic
 - Working pressure psi : 10.000 psi
 - Min. ID body in. : 3.00
 - Connection type (box) : 7-5/8" Reg
 - Connection type (box) : 7-5/8" Reg
 Lower inside BOP (see also D.1.15)
 - Quantity no. : 1
 - Make/type : Varco Large Bore
 - Working pressure psi : 10.000
 - Min. ID body in. : 3.75
 - Connection type (box) : 7-5/8" Reg
 - Connection type (pin) : 7-5/8" Reg

B.4.4.1 Top Drive Makeup/Breakout System

Make/Type : Varco
 Model : PH-100
 Max. makeup torque ft-lbs : 100.000 ft/lbs
 Max. breakout torque ft-lbs : 120.000 ft/lbs
 Raised backup system yes/no : no
 - Make/type: :
 - Working height (range) ft/ft :

C. POWER SUPPLY SYSTEMS

C.1 RIG POWER PLANT

C.1.1 Diesel Engines

Quantity no. : 4
 Make/type : caterpillar 3516 BHD

Maximum continuous power	hp :	2150
At rotation speed of	rpm :	1200
Equipped with spark arrestors	yes/no :	yes
Mufflers installed	yes/no :	yes

C.1.2 DC – Generator : not equipped

C.1.3 AC – Generator : yes

Quantity	no. :	4N/A
Make/type	:	KATO AA2 783002
Continuous power	kW :	1600KW X 4
- At rotation speed of	rpm :	1200 RPM
Output volts	volts :	600 VOLTS

C.1.4 VFD System

Number of VFD	no. :	9 Units
Make/type	:	ABB M800
Maximum continuous power (total)	kw :	
Output volts	volts :	690

C.1.5 Transformer System

Quantity	no. :	2 600/480 Power Transformer
Make/type	:	Hammond Power Solution
Continuous power (each)	kva :	2000KVA Part No: 183340
Output volts	volts :	480V
Frequency	Hz :	60

Quantity	no. :	2 480/220V Lighting Transformer
Make/type	:	Hammond Power Solution
Continuous power (each)	kva :	400KVA Part No: 178587
Output volts	volts :	220V/127V
Frequency	Hz :	60/112

Quantity	no. :	2 VFD Filter Transformer
Make/type	:	Mirus Harmonic Filter
Continuous power (each)	kva :	3500 HP Type: A UHF-3500-690-60 0-E1
Output volts	volts :	690V Type: A VHF-1500-690-60 0-E1
Frequency	Hz :	60

Quantity	no. :	2 VFD Filter Transformer
Make/type	:	Mirus Harmonic Filter
Continuous power (each)	kva :	1500HP 1350KVA
Output volts	volts :	690V Type: AVHF-1500-690-60 0-E1
Frequency	Hz :	60

Quantity	no. :	1 Emergency Lighting Transformer
Make/type	:	
Continuous power (each)	kva :	225 KVA
Output volts	volts :	480 /220
Frequency	Hz :	60

Quantity	no. :	1 Emergency Lighting Transformer
Make/type	:	
Continuous power (each)	kva :	75 KVA
Output volts	volts :	480/220V
Frequency	Hz :	60

Quantity	no. :	1 9 Solution Transformer
Make/type	:	
Continuous power (each)	kva :	15KVA
Output volts	volts :	220
Frequency	Hz :	60

Quantity	no. :	
Make/type	:	
Continuous power (each)	kva :	
Output volts	volts :	
Frequency	Hz :	

C.1.6 Emergency Shutdown

Emergency shutdown switches for the complete

Power system (AC and DC), located at the

Following points	:	Rig floor, control room, OIM office, lifeboats, Entrances to lower decks from main deck.
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C.1.7 Compressed Air Systems

Air Compressors - Cold Start	:	N/A
------------------------------	---	-----

- Quantity	no. :	
- Make	:	
- Model	:	
- Rated capacity	ft ³ /min :	
- Working pressure	psi :	
- Prime mover (electric/diesel)	:	
- Continuous power	hp :	

Air Compressors - Medium Pressure (Rig Air):

- Quantity	no. :	2
- Make	:	Ingersoll Rand
- Model	:	SSR EP 1505
- Rated capacity	ft ³ /min :	670C FM
- Working pressure	psi :	125PSI
- Prime mover (electric/diesel)	:	Electric
- Continuous power	hp :	200HP + 10HP

Air dryers:

- Quantity	no. :	2
- Make	:	Ingersoll Rand
- Model	:	HL18001 H00AS
Make	:	Ingersoll Rand
Model	:	TS9A
- Rated capacity	ft ³ /min :	

Air Compressors - Low Pressure (bulk air)

- Quantity	no. :	1
- Make	:	Ingersoll Rand
- Model	:	SSR-XF150S
- Rated capacity	ft ³ /hr :	739 CFM
- Working pressure	psi :	100 PS
- Prime mover (electric/diesel)	:	
- Continuous power	hp :	200 HP + 10HP

C.1.8 Air Receivers

Quantity	no. :	5
Volume (total)	ft ³ :	120 /45/142 ft3 –Pressure
Psi	:	125/125/40 psi
Location	:	Drill floor / Aux. machine room

C.2 EMERGENCY GENERATOR

C.2.1 Engine

Quantity	no. :	1
Make/Type	:	caterpillar 3412
Maximum output	hp :	831
- At rotation speed	rpm :	1800
Automatic starting	yes/no :	yes
Starting methods (air, hydraulic, battery)	:	battery
Max angle of operation	degrees :	

C.2.2 AC - Generator

Quantity	no. :	1
Make/Type	:	caterpillar
Maximum output	kW :	550KW
- At rotation speed	rpm :	1800
Output	volts :	480
Capable of back-feeding power to main bus	yes/no :	Yes

687KVA

D. DRILLSTRING EQUIPMENT

D.1 TUBULARS

D.1.3 Drill Pipe

Drill pipe OD	in. :	5 “	3-1/2”
Grade	:	S- 135	S-135
Total length	ft :	20,000	5000 ft
Range	:	two (2)	two (2)
Weight	lbs-ft :	24.700 L/F	15.500 L/F
Internally plastic coated	yes/no :	yes	no
Tool joint OD/ID	in/in :	7” / 4.00”	5” / 2.438”
Tool joint pin length (original)	in. :	12”	12.5”
Tapered shoulder tool joints (box/pins)	degree/degree :	18° / 35°	
Connection type	:	5 ‘HT50	HT50
Thread protectors	yes/no :	yes	yes

D.1.4 Drill Pipe Pup Joints

Drill pipe OD	in. :	5 ”
Tool joint OD/ID	in/in :	7” / 4”
Grade	:	
Length	ft :	5 ft / 10 ft / 15 ft
- Quantity	no. :	1 ea
Length	ft :	
- Quantity	no. :	
Weight	lbs/ft :	24.7
Connection type	:	5 ‘HT 50
Internally plastic coated	yes/no :	Yes
Thread protectors	yes/no :	Yes

D.1.5 Drill Pipe Casing Protectors

Initial stock no. :
 Make/type :
 OD in. :
 Installation tools (manual/hydraulic/none) :

D.1.6 Hevi-Wate Drill Pipe

Quantity no. : 19
 Nominal size OD in. : 5"
 Weight lbs/ft : 61.63
 Range : 2
 Tool joint OD/ID in./in. : 7.250" / 3. 5/16"
 Type of hard facing : Smooth x (S-20)
 Internally plastic coated yes/no : no
 Connection type : 5" HT50
 Thread protectors yes/no : Yes

D.1.7 Drill Collars

Quantity no. : 3
 OD body in. : 9 1/2"
 ID body in. : 3.00"
 Nominal length of each joint ft : 31 ft
 Drill collar body (slick/spiral) : Spiral
 Recess for "zip" elevator yes/no : yes
 Recess for slips yes/no : yes
 Stress relief pin groove yes/no : yes
 Bore back on box yes/no : yes
 Connection type : 7 5/8 API Reg

D.1.8 Drill Collars

Quantity no. : 24
 OD body in. : 8"
 ID body in. : 2.812
 Nominal length of each joint ft : 31 ft
 Stress relief pin groove yes/no : Yes
 Bore back on box yes/no : Yes
 Connection type : 6 5/8 API Reg

D.1.9 Drill Collars

Quantity no. : 30
 OD body in. : 6 1/2"
 ID body in. : 2.812
 Nominal length of each joint ft : 31 ft
 Drill collar body (slick/spiral) : spiral
 Recess for "zip" elevator yes/no : yes
 Recess for slips yes/no : yes
 Stress relief pin groove yes/no : yes
 Bore back on box yes/no : yes
 Connection type : NC 46

D.1.10 Drill Collars

Quantity no. : 30
 OD body : 4 3/4"
 ID body : 2"

Nominal length of each joint	ft :	31 ft
Recess for zip elevator	:	Yes
Recess for slips	:	Yes
Stress relief pin groove	yes/no :	Yes
Bore back on box	yes/no :	Yes
Connection	:	NC 38

:

D.1.15 Inside BOP Valve

Quantity	no. :	1
Make	:	Packard
OD	in. :	7-3/4"
Min. ID	in. :	3-1/4"
Connection type	:	5-1/2 FH
Working pressure	psi :	15.000 psi

Quantity	no. :	1
Make	:	Packard
OD	in. :	5"
Min. ID	in. :	1-3/4"
Connection type	:	3-1/2 IF
Working pressure	psi :	15.000 lbs

D.1.18 F.O.S.V.

- Quantity	no. :	2
- Make/type	:	Packard
- Working pressure	psi :	15,000psi
- Max OD body	in :	7 3/4"
- Max ID body	in :	3-1/4"
- Connection type	:	5 1/2" FH
- Serial Number	:	5816-1-1

- Quantity	no. :	1
- Make/type	:	Packard
- Working pressure	psi :	15,00psi
- Max OD body	in :	5"
- Max ID body	in :	1 3/4"
- Connection type	:	3 1/2 IF
- Serial number	:	5816-3-1

D.1.19 Pump in Subs

Quantity	no. :	1
Make/type	:	Pump in
OD body	in. :	7" x 1 3/4" ID
Connection type	:	5 1/2" FH PIN x 2" Fig 1502 Female
- Serial number	:	PL 080425-15-1
Quantity	no. :	1
Make/type	:	Pump In
OD body	in. :	7" x 1 3/4" I.D
Connection type	:	5 1/2" FH Box x 2" Fig 1502 Female
- Serial Number	;	PL 080614-1-1

Quantity no. : 1
 Make/type : Pump In
 OD body in. : 4 3/4" x 1 3/4" ID
 Connection type : 3 1/2" IF Pin x 2" Fig 1502 Female
 Serial Number : PL 080425-16-1

Quantity no. : 1
 Make/type : Pump In
 OD body in. : 4 3/4" x 1 3/4" ID
 Connection : 3 1/2" IF Box x 2" Fig 1502 Female

Side Entry Subs

Quantity no. : 1
 Make/type : Side Entry
 OD body :
 Connection : 3 1/2" IF Pin & Box x 2" Fig 1502 Female
 Serial Number :

Quantity no. : 1
 Make/type : Side Entry
 OD body in. : 7" O.D x 3" I.D
 Connection type : 5 1/2" FH, 5" HT50 Pin & Box x 2" Fig 1502
 Female
 Serial Number : PL 080425-16-1

D.1.20 Cup Type Tester

Quantity no. : 1
 Make :
 Size in. : 13 3/8"
 - Test cup for casing weight lb/ft : 68 to 72 Lbs. per ft
 - Test cup for casing weight lb/ft :
 Connection type : 5 1/2" FH Pin & Box

Quantity no. : 1
 Make :
 Size in. : 9 5/8"
 - Test cup for casing weight lb/ft : 49 to 53.5 Lbs. per ft
 - Test cup for casing weight lb/ft :
 Connection type : 5 1/2" FH Pin & Box

D.1.22 Drop-In-Valves

Quantity no. : 2+2
 For nom. OD drill pipe in. : 5-1/2 FH & 3-1/2 IF
 Make/type : Packard
 Max. OD dart in. :

D.1.23 Near-Bit Subs (Box-Box)

Quantity no. : 2
 OD size in. : 4-3/4"
 ID size in. : 2"

Top connection type	:	3-1/2 IF
Bottom connection type	:	3-1/2 reg
Bored for float size	yes/no :	yes
- Float size	:	2F-3R
;		
Quantity	no. :	2
OD size	in. :	6-1/2"
ID size	in. :	2-13/16"
Top connection type	:	4 "if box
Bottom connection type	:	4-1/2reg box
Bored for float valve	yes/no :	yes
- Float size	:	4R
Serial Numbers	:	GP 182125-1 GP 182125-4
Quantity	no. :	2
OD size	in. :	8"
ID size	in. :	2-13/16"
Top connection type	:	6-5/8 reg box
Bottom connection type	:	6-5/8 reg box
Bored for float valve	yes/no :	yes
- Float size	:	5F-6R
Serial Numbers	:	GP 182368-1 GP 182368-2
Quantity	no. :	2
OD size	in. :	9-1/2"
ID size	in. :	2-13/16"
Top connection type	:	7-5/8 reg box
Bottom connection type	:	7-5/8 reg box
Bored for float size	yes/no :	yes
- Float size	:	5F-6
Serial Numbers	:	GP 178852-1 GP 178852-2
Quantity	no. :	1
OD size	in. :	8"x 9 1/2"
ID size	in. :	2-13/16"
Top connection type	:	6-5/8 reg box
Bottom connection type	:	7-5/8 reg box
Bored for float size	yes/no :	yes
- Float size	:	5F-6R
Serial Number	:	PL 080425-1-1

D.1.24

Crossover Subs

Quantity	no. :	3
OD size (max/min)	in./in. :	9-1/2"
ID size	in. :	2-13/16"
Top connection size	:	6-5/8 reg
- Type (pin/box)	:	box
Bottom connection size	:	7-5/8 reg
- Type (pin/box)	:	pin
Serial Numbers	:	GP 178851-2 on Rig for use by NOV GP 178851-1 PL 080425-10-1

Quantity no. 2
 OD size (max/min) in./in. : 9-1/2"
 ID size in. : 2-13/16"
 Top connection size : 4-1/2 IF
 - Type (pin/box) : box
 Bottom connection size : 7-5/8 reg
 - Type (pin/box) : pin
 Serial Numbers GP 178844-1
 GP 178844-2

Quantity no. : 2
 OD size (max/min) in./in. : 9-1/2"
 ID size in. : 2-13/16"
 Top connection size : 4 IF
 - Type (pin/box) : box
 Bottom connection size : 7-5/8 reg
 - Type (pin/box) : pin
 Serial Numbers GP 178851-3
 GP 178855-4

Quantity no. : 2
 OD size (max/min) in./in. : 8"
 ID size in. : 2-13/16"
 Top connection size : 4-1/2 IF
 - Type (pin/box) : box
 Bottom connection size : 6-5/8 reg
 - Type (pin/box) : pin
 Serial Numbers GP 182368-4
 GP 182368-6

Quantity no. : 1
 OD size (max/min) in. : 9-1/2"
 ID size in. : 3"
 Top connection size : 7-5/8 reg
 - Type (pin/box) : box
 Bottom connection size : 6-5/8 reg
 - Type (pin/box) : pin

Quantity no. : 2
 OD size (max/min) in./in. : 8"
 ID size in. : 2-13/16"
 Top connection size : 5-1/2 FH
 - Type (pin/box) : box
 Bottom connection size : 6-5/8 reg
 - Type (pin/box) : pin
 Serial Numbers PL 080425-3-1
 PL 080425-3-2

Quantity no. : 2
 OD size (max/min) in./in. : 7"
 ID size in. : 2-13/16"
 Top connection size : 4-1/2 IF
 - Type (pin/box) : box
 Bottom connection size : 5-1/2 FH - Type (pin/box) :
 - Type (pin/box) : pin
 Serial Numbers PL 080425-4-1
 PL 080425-4-2

Quantity no. : 4
 OD size (max/min) in./in. : 7"
 ID size in. : 2-13/16"
 Top connection size : 5-1/2 FH & 5" HT50
 - Type (pin/box) : box
 Bottom connection size : 4-1/2 IF
 - Type (pin/box) : pin
 Serial Numbers PL 080425-5-1
 PL 080425-5-2
 PL 080425-5-3

Quantity no. : 2
 OD size (max/min) in./in. : 6 1/2"
 ID size in. : 2-13/16"
 Top connection size : 4- IF
 - Type (pin/box) : box
 Bottom connection size : 4-1/2 IF
 - Type (pin/box) : pin
 Serial Numbers GP 182124-1
 GP 182124-2

Quantity no. : 2
 OD size (max/min) in./in. : 6 1/2' X 8"
 ID size in. : 2-13/16"
 Top connection size : 4-IF
 - Type (pin/box) : box
 Bottom connection size : 5-1/2 FH & 5" HT50
 - Type (pin/box) : pin
 Serial Number PL 080425-7-1
 PL 080425-7-2

Quantity no. : 2
 OD size (max/min) in./in. : 7"
 ID size in. : 2-13/16"
 Top connection size : 5-1/2 FH & 5" HT50
 - Type (pin/box) : box
 Bottom connection size : 4 IF
 - Type (pin/box) : pin
 Serial Numbers PL 080425-8-1
 PL 080425-8-2

Quantity no. : 2
 OD size (max/min) in./in. : 7"
 ID size in. : 2-1/4"
 Top connection size : 5-1/2 FH & 5" HT50
 - Type (pin/box) : box
 Bottom connection size : 3-1/2 IF
 - Type (pin/box) : pin
 Serial Numbers PL 080425-9-1
 PL 080425-9-2

Quantity no. : 2
 OD size (max/min) in./in. : 8"
 ID size in. : 2"
 Top connection size : 3-1/2 IF

- Type (pin/box)	:	box
Bottom connection size	:	6-5/8 reg
- Type (pin/box)	:	pin
Serial Numbers		GP 182456-2, GP 182456-5
Quantity	no. :	2
OD size (max/min)	in./in. :	6-1/2"
ID size	in. :	2"
Top connection size	:	3-1/2 IF
- Type (pin/box)	:	box
Bottom connection size	:	4-1/2 IF
- Type (pin/box)	:	pin
Serial Numbers		GP 182122-1 GP 182122-2
Quantity	no. :	2
OD size (max/min)	in./in. :	6-1/2"
ID size	in. :	2-13/16"
Top connection size	:	4-1/2 IF
- Type (pin/box)	:	Pin
Bottom connection size	:	4 IF
- Type (pin/box)	:	Box
Serial Numbers		PL 080425-6-1 PL 080425-6-2
Quantity	no. :	2
OD size (max/min)	in./in. :	8"
ID size	in. :	2-13/16"
Top connection size	:	4- IF
- Type (pin/box)	:	box
Bottom connection size	:	6-5/8 reg
- Type (pin/box)	:	pin
Serial Numbers		GP 182367-3 GP 182367-2

Double Pin Subs

Quantity	no. :	1
OD size (max/min)	in./in. :	8"
ID size	in. :	2-13/16"
Top connection size	:	6-5/8 reg
- Type (pin/box)	:	pin
Bottom connection size	:	4 IF
- Type (pin/box)	:	pin
Serial Number		PL 080425-14-1
Quantity	no. :	1
OD size (max/min)	in./in. :	8
ID size	in. :	2 x 13/16
Top connection size	:	6-5/8 reg
- Type (pin/box)	:	pin
Bottom connection size	:	5-1/2 FH & 5 HT50
- Type (pin/box)	:	pin
Serial Number		PL 080425-13-1
Quantity	no. :	1
OD size (max/min)	in./in. :	9-1/2"
ID size	in. :	3"
Top connection size	:	7-5/8 reg

- Type (pin/box) : pin
 Bottom connection size : 5-1/2 FH
 - Type (pin/box) : pin
 Serial Number : PL 080425-2-1

Quantity no. : 1
 OD size (max/min) in./in. : 8"
 ID size in. : 2-13/16"
 Top connection size : 6-5/8 reg
 - Type (pin/box) : pin
 Bottom connection size : 6-5/8 reg
 - Type (pin/box) : pin
 Serial Number : pl 080425-12-1

Quantity no. : 1
 OD size (max/min) in./in. : 9-1/2"
 ID size in. : 3"
 Top connection size : 7-5/8 reg
 - Type (pin/box) : pin
 Bottom connection size : 6-5/8 reg
 - Type (pin/box) : pin
 Serial Number ; PL 080425-11-1

Saver Sub

Quantity no. : 3
 OD size (max/min) in./in. : 8 5/8"
 ID size in. : 3 1/4"
 Top connection size : 7 5/8"
 - Type (pin/box) : Reg Pin
 Bottom connection size : 5 1/2"
 - Type (pin/box) : FH Pin

Quantity no. : 2
 OD size (max/min) in./in. : 8 5/8"
 ID size in. : 2 1/4"
 Top connection size : 7 5/8"
 - Type (pin/box) : Reg Pin
 Bottom connection size : NC 38
 - Type (pin/box) :

D.2 HANDLING TOOLS

D.2.1 Drill Pipe Elevators

Size in. : 5-1/2" & 5"
 Quantity no. : 1
 Make : BVM
 Model : GG
 Rated capacity st. : 350 ton

Size in. : 5-1/2"
 Quantity no. : 1
 Make : BVM, BJ air operated
 Model : GG-AO
 Rated capacity st. : 350 ton

Size in. : 3-1/2"

Quantity no. : 1
 Make : BVM
 Model : MGG
 Rated capacity st. : 250 ton

Size in. : 3-1/2"
 Quantity no. : 1
 Make : MH
 Model : air operated
 Rated capacity st. : 350 ton

Size in. : 5-1/2" & 3-1/2"
 Quantity no. : 1 each
 Make : OCT
 Model : type S, single joint elevator
 Rated capacity st. : 5 ton & 3-1/2 ton

D.2.3 Tubing Elevators

Size (max/min) in./in. : 3-1/2" EU tubing
 Quantity no. : 1
 Make : BVM
 Model : RA centre latch
 Rated capacity st. : 150 ton

D.2.4 Drill Pipe Hand Slips

Size in. : 5-1/2" & 5"
 Quantity no. : 2
 Make / type : BVM / SDXL, reducing inserts available to 4-1/2" and 3-1/2"

D.2.5 DP Slips PS21

Size range (largest/smallest) in/in : 2 7/8- 13 3/8"
 no. : 1
 Make/type : NOV

D.2.6 Drill Collar Slips

Size in. : 8" - 9-1/2"
 Quantity no. : 1
 Make/type : BVM / DCS-L

Size in. : 6-3/4" – 8-1/4"
 Quantity no. : 1
 Make/type : BVM / DCS-L

Size in. : 5-1/2" – 7"
 Quantity no. : 1
 Make/type : BVM / DCS-L

Size in. : 4" – 4-7/8"
 Quantity no. : 1
 Make/type : BVM / DCS-S

D.2.7 Drill Collar Safety Clamps

Quantity no. : 1

D.2.11 DC Lifting Plugs

Lifting Caps

Quantity	no. :	3 & 3 ea
For DC OD	in. :	9-1/2"
Connection type	:	7-5/8 reg pin & 7-5/8 reg box
Quantity	no. :	3 & 3 ea
For DC OD	in. :	8"
Connection type	:	6-5/8 reg pin & 6-5/8 reg box
Quantity	no :	2
Connection type	:	3-1/2-Reg box
Quantity	no :	2
Connection type	:	4-1/2-Reg box
Quantity	no :	2 & 2 ea
For DC OD	in. :	6 1/2"
Connection type	:	4-IF pin & 4-IF box
Quantity	no. :	4 & 4 ea
For DP OD	in. :	5-1/2"
Connection type	:	5-1/2 FH pin & 5- 1/2 FH box
Quantity	no :	3 & 3 ea
Connection type	in :	4-1/2 IF pin & 4- 1/2 box
Quantity	no. :	3 & 3 ea
For DC OD	in. :	4-3/4"
Connection type	:	3-1/2 IF pin & 3-1/2 IF box

D.2.12 Bit Breakers

Quantity	no. :	1 each
For bit size	in. :	26", 17-1/2", 12-1/4", 8-1/2", 6"

D.2.13 Elevator Links

Quantity of sets	no. :	1
Make/Type	:	NOV
Size	in. :	3-1/2"
Length	in. :	180 inch
Rated Capacity	st :	500 ton

Quantity of sets	no. :	1
Make/Type	:	NOV
Size	in. :	2-3/4"
Length	ft :	132 inch
Rated Capacity	in. :	350 ton

D.2.15 Drillpipe Spinner

Make/Type : Grayspin Mark 30
 Size(max/min) in./in. : 3 1/2" to 9 1/2"

D.2.16 Mud Saver Bucket

Make : Oteco
 Size in. : 3-1/2" – 5-1/2"

D.2.17 Hydraulic Makeup/Breakout Machine (e.g. EZ Torque)

Quantity (sets) no. : 2
 Make/Type : Varco / HC-26EV
 Maximum line pull st : 34000 (155.000 ft/lbs on 5 ft tongs)

D.2.18 Rotary Rig Tongs

Quantity (sets) no. : 1
 Make/type : BVM type 'B'
 Size range (max OD/min OD) in./in. : 3-1/2" – 13-3/8"
 Torque rating f t/lbs : 55.000 ft/lbs

Quantity (sets) no. : 1
 Make/type : BVM type SDD
 Size range (max OD/min OD) in./in. : 4" – 17"
 Torque rating f t/lbs : 100.000 ft/lbs

D.2.19 Tubing Tongs (Manual)

Quantity (sets) no. :
 Make/type :
 Size range (max OD/min OD) in./in. :
 Torque rating ft/lbs :

D.2.20 Tubing Tongs (Power)

Quantity no. :
 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.2.21 Iron Roughneck

Make/type : NOV / ST-120
 Size range (max OD/min OD) in./in. : 3-1/2" – 10"
 Max makeup torque ft/lbs : 100.000 ft/lbs
 Max breakout torque ft/lbs : 120.000 ft/lbs

D.3 FISHING EQUIPMENT

D.3.1 Overshot's

Quantity no. : 1
 Make/type : Logan series 150
 Overshot OD in. : 11-3/4"
 To catch size in. : 9-1/2"
 To catch size in. : 8"
 To catch size in. : 7-1/2" – 7" – 5-1/2"

Overshot guide OD	in. :	21"
Overshot guide OD	in. :	15"
Extension sub length	in. :	36"
Lipped guide (oversize, regular)	:	oversized
Grapples (spiral, basket, both)	:	both
Pack offs	yes/no :	yes
Top subs connection type	:	6-5/8 reg
Quantity	no. :	1
Make/type	:	Logan series 150 slim hole
Overshot OD	in. :	8-1/8"
To catch size	in. :	7" – 6-1/2" – 5-1/2"
Overshot guide OD	in. :	11"
Overshot guide OD	in. :	15"
Extension sub length	in. :	36"
Lipped guide(oversize, regular)	:	oversized
Grapples (spiral, basket, both)	:	both
Pack offs	yes/no :	yes
Top subs connection type	:	4-1/2 IF box
Quantity	no. :	1
Make/type	:	Logan series 150 F.S.
Overshot OD	in. :	5-3/4"
To catch size	in. :	4-3/4" – 3-1/2"
Overshot guide OD	in. :	8"
Extension sub length	in. :	36"
Lipped guide (oversize, regular)	:	regular
Grapples (spiral, basket, both)	:	both
Pack offs	yes/no :	yes
Top subs connection type	:	3-1/2 IF box

D.3.2 Hydraulic Fishing Jar

Quantity	no. :	1
Make/type	:	Logan 'Z' type
OD body	in. :	4-3/4"
Min. ID	in. :	2"
Stroke	in. :	
Connection type	:	3-1/2 IF
Repair kit	yes/no :	no
Quantity	no. :	1
Make/type	:	Logan 'Z' type
OD body	in. :	6-1/2"
Min. ID	in. :	2-1/4"
Stroke	in. :	
Connection type	:	4-1/2 IF
Repair kit	yes/no :	no
Quantity	no. :	1
Make/type	:	Logan 'Z' type
OD body	in. :	8"
Min. ID	in. :	3-1/16"
Stroke	in. :	
Connection type	:	6-5/8 reg
Repair kit	yes/no :	no

D.3.3 Jar Intensifier

Quantity	no. :	1 each
Make/type	:	Logan jar energizer
OD body	in. :	4-3/4" - 6-1/2" - 8"
Min. ID	in. :	2" - 2-1/4" - 3-1/16"
Connection type	:	3-1/2 IF - 4-1/2 IF - 6-5/8 reg
Repair kit	yes/no :	no

D.3.4 Surface Jar

Quantity	no. :	1
Make/type	:	Logan
OD body	in. :	7"
Stroke	in. :	48"
Connection type	:	4-1/2 IF
Repair kit	yes/no :	no

D.3.5 Fishing Bumper Subs

Quantity	no. :	1 each
Make/type	:	Logan
OD body	in. :	8" / 6-1/2" / 4-3/4"
Min ID	in. :	3-1/2" / 2-1/4" / 2"
Stroke	in. :	20" for each
Connection type	:	6-5/8 reg / 4-1/2 IF / 3-1/2 IF

D.3.6 Safety Joints

Quantity	no. :	1 each
Make/type	:	Logan
OD body	in. :	4-3/4" / 6-1/2" / 8"
Min ID	in. :	2-11/16" / 3-3/4" / 3-1/2"
Connection type	:	3-1/2 IF / 4-1/2 IF / 6-5/8 reg

D.3.7 Junk Baskets (Reverse Circulation)

Quantity	no. :	1
Make/type	:	Logan
For hole size	in. :	6"
OD body	in. :	5-1/8"
Connection type	:	3-1/2 IF
Inside magnet available	yes/no :	no
Mill shoes Type (A, B, C)	:	A

Quantity	no. :	1
Make/type	:	Logan
For hole size	in. :	8-1/2"
OD body	in. :	7-7/8"
Connection type	:	4-1/2 IF
Inside magnet available	yes/no :	no
Mill shoes type (A, B, C)	:	A

Quantity	no. :	1
Make/type	:	Logan
For hole size	in. :	12-1/4"
OD body	in. :	11"
Connection type	:	6-5/8 reg
Inside magnet available	yes/no :	no
Mill shoes type (A, B, C)	:	A

Quantity	no. :	1
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Make/type : Logan
 For hole size in. : 17-1/2"
 OD body in. : 15"
 Connection type : 6-5/8 reg
 Inside magnet available yes/no : no
 Mill shoes type (A, B, C) : A

D.3.8 Junk Subs

Quantity no. : 1
 Make/type : Logan
 For hole size in. : 6" - 6-3/8"
 OD body in. : 5"
 Connection type : 3-1/2 IF

Quantity no. : 1
 Make/type : Logan
 For hole size in. : 8-1/2"
 OD body in. : 6-5/8"
 Connection type : 4-1/2 reg

Quantity no. : 1
 Make/type : Logan
 For hole size in. : 12-1/4"
 OD body in. : 9-5/8"
 Connection type : 6-5/8 reg

Quantity no. : 1
 Make/type : Logan
 For hole size in. : 17-1/2"
 OD body in. : 12-7/8"
 Connection type : 7-5/8 reg

D.3.9 Flat Bottom Junk Mill

Quantity no. : 1 each size
 Make/type : Logan
 OD flat mill in. : 16-1/2" / 11-1/2" / 7-1/2" / 5"
 Connection type : 7-5/8 reg / 6-5/8 reg / 4-1/2 reg / 3-1/2 reg

D.3.10 Magnet Fishing Tools

Quantity no. : 2
 Make/type : Logan
 OD body in. : 5" / 7" / 10-1/2" / 16"
 Connection type : 2-7/8 reg / 4-1/2 reg / 6-5/8 reg / 7-5/8 reg

D.3.11 Taper Taps

Quantity no. : 1 each size
 Make : Logan
 Tap OD (max/min) in./in. : 3-11/16" - 2-3/16" / 4-3/4" - 3-1/4" /
 6-3/8" - 4-3/4"
 OD body in. : 4-3/4" / 6-1/2" / 8"
 Length overall ft :
 Connection type : 3-1/2 IF / 4-1/2 IF / 6-5/8 reg

E. WELL CONTROL

E.1 DIVERTER

Fixed	yes/no	:	yes
- Make/type		:	Shaffer
- Maximum bore	in.	:	30"
- ID of insert packer	in.	:	None
- Working pressure	psi	:	1000 psi
Number of diverter outlets	no.	:	2 ea
Outlet OD (nominal)	in.	:	12"

E.1.1 Diverter Flow lines

Quantity	no.	:	2 ea
Nominal size of flow lines	in.	:	12"
Running from diverter to		:	Port & STBD OVBD
Valve make/type		:	
- Quantity	no.	:	2 ea
- Size	in.	:	12"
- Working pressure	psi	:	1500 psi
- Valve operator (air/hydraulic)		:	hydraulic
System pressure rating	psi	:	1000
Flex hose in flowline	yes/no	:	No

E.1.2 Diverter Control Panel

Primary make/type	:	NOV
- Location	:	Drill Floor

E.2 LOW PRESSURE BLOWOUT PREVENTERS

All appropriate components H ₂ S rated	yes/no	:	Yes
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E.2.1 Ram Type Preventers

			See F 2.1
Quantity	no.	:	1
Make/model		:	Cameroon LWS
Type (single/double/triple)		:	Double
Size	in.	:	20 ³ / ₄ "
Working pressure	psi	:	3000
Ram locks	yes/no	:	Yes
Type (manual/hydraulic)		:	Manual
H ₂ S service	yes/no	:	Yes
Side outlets	no.	:	4
- Size	in.	:	3 ¹ / ₁₆ "
- Working pressure	psi	:	5000 psi / 10000psi
Bottom connection		:	Flange R74
Top connection		:	Studded R74
Shear ram boosters	yes/no	:	No

E.2.2 Available Rams (Installed and Spare)

Quantity/type/size	no./type/in	:	Shear / 5" / 13 ³ / ₈ "
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E.2.3 BOP Ram Configuration (Normal)

Upper	:	Shear
Middle upper	:	
Middle lower	:	
Lower	:	5"

E.2.4 Annular Preventer

Quantity	no. :	1
Make/type	:	NOV – Shaffer SBOP
Size	in. :	20 ¾ "
Working pressure	psi :	3000psi
Bottom connection	:	Flange
Top connection	:	Studded

E.2.5 Kill Line Valves

Quantity	no. :	1
Make/type	:	Shaffer /type B
Size	in. :	3-1/16"
Working pressure	psi :	10.000 psi
Gasket type	:	BX 154
Hydraulic/manual/non-return	:	manual

E.2.6 Choke Line Valves

Quantity	no. :	1
Make/type	:	Shaffer / type B
Size	in. :	3-1/16"
Working pressure	psi :	10.000 psi
Gasket type	:	BX 154
Hydraulic/manual	:	hydraulic

E.3 HIGH PRESSURE BLOWOUT PREVENTERS

All appropriate components H ₂ S rated	yes/no :	Yes
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E.3.1 Ram Type Preventers

Quantity	no. :	2
Make/model	:	Cameroon U-TYPE
Type (single/double/triple)	:	1 – Double & 1 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. :	4
- Size	in. :	3 1/16"
- Working pressure	psi :	10.000 psi
Bottom connection	:	Flanged
Top connection	:	Studded
Shear ram boosters	yes/no :	Yes

E.3.2 Available Rams (Installed and Spare)

Quantity/type/size	no./type/in :	1 x Shear 1 / Multi / 5" – 6 5/8"
Quantity/type/size	no./type/in :	1 x 3 1/2 / 2 x 5 1/2 " / 7" / 1 x 9 5/8
Quantity/type/size	no./type/in :	

E.3.3 BOP Ram Configuration (Normal)

Upper	:	BSR
Middle upper	:	Multi 5"-6 5/8"
Middle lower	:	
Lower	:	5-1/2"

E.3.4 Annular Preventer

Quantity	no. :	1
Make/type	:	NOV-Shaffer SBOP
Size	in. :	13 5/8
Working pressure	psi :	5000 psi
Bottom connection	:	Flanged BX 159
Top connection	:	Studded BX 160

E.3.5 Kill Line Valves

Quantity	no. :	2 ea
Make/type	:	Shaffer DB/B
Size	in. :	3 1/16
Working pressure	psi :	10000
Gasket type	:	13 x 154
Hydraulic/manual/non-return	:	hyd/mm

E.3.6 Choke Line Valves

Quantity	no. :	2 ea
Make/type	:	Shaffer DB/B
Size	in. :	3 1/16
Working pressure	psi :	10000
Gasket type	:	13 x 154
Hydraulic/manual/non-return	:	hyd/mm

E.5 BOP CONTROL SYSTEM

E.5.1 Accumulator Unit

Make/model	:	Koomey / T60360-3S
Location	:	under cantilever
Fluid reservoir capacity	US gal :	550
Oil/water mix rate	US gpm :	100% McDermid-Erifon HP pilot line fluid G25
Glycol reservoir capacity	US gal :	N/A
Total accumulator capacity (w/o precharge)	US gal :	384
System working pressure	psi :	3000 psi
Control manifold model	:	Koomey GU2KBS-7S 'G' series
Regulator type	:	MKR
Total useful accumulator volume equals all		
Preventer opening and closing volumes	yes/no :	yes
- Plus percent additional volume	% :	50%

E.5.2 Accumulator Hydraulic Pumps

Electric driven:		
- Quantity	no. :	2 ea
- Make/model	:	Koomey / T360-60-3
- Each driven by motor of power	hp :	60

- Flow rate of each pump	US gpm :	28.3
- At operating pressure	psi :	3000
- Operable off emergency generator	yes/no :	

Air driven:

- Quantity	no. :	N/A
- Make/model	:	
- Flow rate of each pump	US gpm :	
- At operating pressure	psi :	

E.5.3 Primary Control Panel

Control panel make/model	:	Koomey / T160360-3S
Location	:	Fwd stb. / cantilever, inboard side
Panel controls for the following functions		
- All annular BOPs	yes/no :	yes
- All ram BOPs	yes/no :	yes
- Lock for ram BOPs	yes/no :	no
- Diverter System	yes/no :	yes
- Kill and choke line valves	yes/no :	yes
- Low accumulator 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
- Flow meter	yes/no :	no
- Quantity of pressure gauges	no. :	7
- Other control functions	yes/no :	yes

E.5.4 Remote Control Panels

Make/model	:	Koomey / MGBK8EP-1K-11DIV
Location	:	Drillers Cabin
Ability to operate main closing unit valves directly		
	yes/no :	yes
System routing (direct or thru panel)		
	:	thru panel
Remote control of system pressure regulator	yes/no :	no
Remote control of annular pressure regulator	yes/no :	yes
Make/model	:	Koomey / MERC-9-2K-11DIV
Location	:	OIM office
Ability to operate main closing unit valves directly		
	yes/no :	yes
System routing (direct or thru panel)		
	:	thru panel
Remote control of system pressure regulator	yes/no :	no
Remote control of annular pressure regulator	yes/no :	yes

E.6 CHOKE MANIFOLD

All appropriate components H ₂ S rated	yes/no :	Yes
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E.6.1 Choke Manifold (For Instrumentation, see H.3)

Nominal size	in. :	3-1/16"
Minimum ID	in. :	3-1/16"
Quantity of fixed chokes	no. :	
- Make/model	:	
- Size (ID)	in. :	

Quantity of adjustable chokes	no. :	1
- Make/model	:	
- Size (ID)	in. :	3"
Quantity of power chokes	no. :	2
- Make/model	:	
- Size (ID)	in. :	3-1/16"
Power choke remote control panel	yes/no :	yes
- Make/model	:	
- Location	:	Drillers console
Glycol injection	yes/no :	no

E.7 FLEXIBLE CHOKE & KILL LINES (BOP to Manifold)

Quantity	no. :	2
Make/type	:	
ID	in. :	3"
Working pressure	psi :	10.000 psi
H ₂ S service	yes/no :	yes

E.8 FLEXIBLE BOP CONTROL HOSES

Quantity	no. :	14
Make/model	:	
ID	in. :	1" & 2"
Working pressure	psi :	5.000 psi
Fire resistant	yes/no :	yes

E.9 BOP TESTING EQUIPMENT

E.9.1 Hydraulic BOP Test Pump

Make/model	:	Koomey
Type	:	SE-15T
Pressure rating	psi :	15.000 psi
Chart recorder	yes/no :	yes / koomey model STR-15

E.9.2 BOP Test Stump

Size	in. :	20 3/4" & 13 5/8"
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E.10 BOP HANDLING

E.10.1 BOP Hoist System

Make/type	:	Ingersoll Rand BHS50MA6-40-40
Quantity of hoists	:	2
Number of lift points on BOP	no. :	2
System safe working load (max BOP wt)	st :	50mt

E.10.2 Work Platforms

BOP work platform (adjustable/fixed/none)	:	Adjustable
Conductor pipe platform	yes/no :	Yes

E.10.3 Conductor Pipe Tensioning System

Make/type	:	Claxton/72216-2-07
Tension capacity	st :	
Number of lift points	no. :	4 hydraulic cylinders, changeable inserts for 30", 20", 13-3/8", 9-5/8"
Stroke	in. :	12"

F.1.3 Booster Pump

Quantity no. :
 Make/type :
 Capacity (each) US gpm :
 Drive motor type type :
 - Power output kw :

F.1.4 Standpipe Manifold

Quantity of standpipes no. : 2
 Standpipes ID in. : 4.063
 H-Type standpipe manifold yes/no : yes
 Kill line outlet yes/no : yes
 Fill-up line outlet yes/no : yes
 Bleed-off line outlet yes/no : yes

F.1.5 Rotary Hoses

Quantity no. : 2
 Make/type : Phoenix Beattie
 ID x Length in. x ft : 4" x 75"
 Working pressure psi : 7.500 psi
 Snubbing lines yes/no : yes

F.1.6 Cementing Hoses

Quantity no. : 1
 Type (armor sheath/flexible steel pipe) : Gates
 Length ft : 66 ft
 ID in. : 2"
 Working pressure psi : 10.000 psi

F.1.7 High Pressure Flexible Steel Pipe

Make/type : Weco
 Integral connections/fittings (non-threaded) yes/no : yes
 ID in. : 2
 Working pressure psi : 10,000
 Section length ft : 10
 - Quantity no. : 5 x lsg-10style 50/10 Swivel Joints
 Sweep swivels, make/type : 3 Straights, 2 Swivels
 - Nominal size ID in. :
 Suitable for H₂S services yes/no : yes

F.2 LOW PRESSURE MUD SYSTEM

F.2.1 Mud Processing Tanks

Sand trap tank, useable volume bbl : 107
 Degasser tank, useable volume bbl : 65
 - Agitated yes/no : no
 Desander tank, useable volume bbl : 64
 - Agitated yes/no : no
 Desilter tank, useable volume bbl : 63
 - Agitated yes/no : no
 Mud cleaner tank, useable volume bbl :
 - Agitated yes/no :
 Centrifuge tank, useable volume bbl :

- Agitated	yes/no :	
Overflow tank, useable volume	bbl :	40
- Agitated	yes/no :	no
Total useable capacity	bbls :	339

F.2.2

Mud Tanks

One Base Oil Tank 1,274 bbls
 One Brine Tank 1,284 bbls

Quantity	no. :	10
Total capacity (useable)	bbl :	4250 bbls capacity
Useable capacity No. 1	bbl :	561 capacity
- Type (active/reserve)	:	reserve
Height	ft :	10 ft
Mixer	yes/no :	yes
Mud guns	yes/no :	yes
Useable capacity No. 2	bbl :	214 capacity
- Type (active/reserve)	:	reserve
Height	ft :	10ft
Mixer	yes/no :	yes
Mud guns	yes/no :	yes
Useable capacity No. 3	bbl :	377.5 capacity
- Type (active/reserve)	:	reserve
Height	ft :	10 ft
Mixer	yes/no :	yes
Mud guns	yes/no :	yes
Useable capacity No. 4	bbl :	521 capacity
- Type (active/reserve)	:	active
Height	ft :	10 ft
Mixer	yes/no :	yes
Mud guns	yes/no :	yes
Useable capacity No. 5	bbl :	442.3 capacity
- Type (active/reserve)	:	active
Height	ft :	10 ft
Mixer	yes/no :	yes
Mud guns	yes/no :	yes
Useable capacity No. 6	bbl :	442.3 capacity
- Type (active/reserve)	:	active
Height	ft :	10 ft
Mixer	yes/no :	yes
Mud guns	yes/no :	yes
Useable capacity No. 7	bbl :	521 capacity
- Type (active/reserve)	:	active
Height	ft :	10 ft
Mixer	yes/no :	yes
Mud guns	yes/no :	yes
Useable capacity No. 8	bbl :	561 capacity
- Type (active/reserve)	:	active
Height	ft :	10 ft
Mixer	yes/no :	yes
Mud guns	yes/no :	yes

Useable capacity No. 9	bbbl :	573 capacity
- Type (active/reserve)	:	reserve
Height	ft :	10 ft
Mixer	yes/no :	yes
Mud guns	yes/no :	yes

F.2.3 Pill/Slug Tank

Capacity (useable)	bbbl :	37 capacity
Mud agitator	yes/no :	yes
Mud guns	yes/no :	yes

F.2.4 Trip/ Stripping Tanks

Capacity (useable)	bbbl :	50
Capacity/foot	bbbl/ft :	
Level indicator	yes/no :	yes
Electric pump make	:	
- Model/type	:	Halco 4x3x13, 2500 supreme, 9” impeller
- Rated capacity	hp :	25
Facility for casing fill-up	yes/no :	yes
Alarm and strip chart recorder	yes/no :	yes

F.2.5 Chemical Mixing Tank

Capacity (useable)	bbbl :	One available for caustic mixing
Chemical mixer type	:	

F.2.6 Shale Shakers

Primary:		
- Quantity	no. :	4
- Make/model	:	Brandt
- Type	:	VSM-300
- Nominal flow rate (total)	gpm :	1600
Gumbo:		
- Quantity	no. :	
- Make/model	:	
- Type	:	
- Nominal flow rate (total)	gpm :	

F.2.7 Desander

Quantity	no. :	No Desander
Make/model	:	
Type	:	
Nominal flow rate	gpm :	
Number of cones	no. :	
- Size	in. :	
Feed pump make/model	:	
- Type/size	:	
- Capacity	gpm :	
- Drive motor hp	hp :	
Is pump dedicated to Desander	yes/no :	

F.2.8 Desilter

Quantity	no. :	1
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Make/model	:	Brandt
Type	:	24 cone, mounted over the 4 th shaker
Nominal flow rate	gpm :	
Number of cones	no. :	24
- Size	in. :	4"
Feed pump make/model	:	
- Type/size	:	Halco 2500 supreme, 8x6x14 centrifugal
- Capacity	gpm :	1000
- Drive motor hp	hp :	100
Is pump dedicated to Desilter	yes/no :	yes

F.2.9 Mud Cleaner

Quantity	no. :	
Make/model	:	
Type	:	
Nominal flow rate	gpm :	
Number of cones	no. :	
- Size	in. :	
Feed pump make/model	:	
- Type/Size	:	
- Capacity	gpm :	
- Drive motor hp	hp :	
Is pump dedicated to mud cleaner	yes/no :	

F.2.10 Mud/Gas Separator (Poor Boy)

Make/type	:	M.I.S. shipyard
Dimensions (height x OD)	ft x in. :	20ft x48: OD
Gas discharge line ID	in. :	10"
Gas discharge location, primary	:	A-frame above water table
Can discharge be tied into burner system	yes/no :	yes
Vacuum breaker	yes/no :	yes
Mud seal height	ft :	
Pressure gauge	yes/no :	yes
Calculated gas throughput	mmscf :	203

F.2.11 Degasser

Quantity	:	1
Make/type	:	Brandt / DG-10
Nominal flow rate	gpm :	1000
Feed pump make/model	:	Halco 2500 supreme
- Type/size	:	8x6x14 centrifugal
- Capacity	gpm :	1000
- Drive motor hp	hp :	100
- Is pump dedicated to degasser	yes/no :	yes
Vacuum pump make type	:	

F.2.12 Mud Agitators

Quantity	no. :	9
Make/model	:	Brandt model MA30RG
Driven by motor of power	hp :	30
Located in tanks	:	1 to 9
(see F.2.1 & F.2.2 for tank designations)		
Quantity	no. :	1
Make/model	:	Brandt model MA10
Driven by motor of power	hp :	10

Located in tanks : slug tank
(see F.2.1 & F.2.2 for tank designations)

F.2.13 Mud Centrifuge

Quantity no. : Supplied by Client
 Make/model :
 Feed pump make/model :
 - Type/size :
 - Capacity gpm :
 - Drive motor hp hp :
 Is feed pump dedicated to centrifuge(s) yes/no :

F.2.14 Mud Laboratory and Facilities

Separate room yes/no : yes
 Equipped with:
 - Mud balance yes/no : yes
 - Marsh funnel yes/no : yes
 - Filtration kit yes/no : yes
 - Sand content kit yes/no : yes
 Air conditioning yes/no : no
 Positive pressure yes/no : no

F.3 BULK SYSTEM

F.3.1 Barite/Bentonite Silos

Quantity no. : 4
 Capacity of each silo ft³ : 1800
 Locations : 1 x bentonite stb side main deck
 3 x barite aft side accommodation main deck
 Type weight load cell : Hydraulic compression
 - Manufacturer : Martin Decker
 Pressure rating psi : 45 psi design, 40 psi WP
 Relief valve (s) installed yes/no : yes

F.3.2 Cement Silos

Quantity no. : 2
 Capacity of each silo ft³ : 1800
 Locations : port side main deck
 Type weight load cell : Hydraulic compression
 - Manufacturer : Martin Decker
 Pressure rating psi : 45 psi design, 40 psi WP
 Relief valve(s) installed yes/no : yes
 Separate mud/cement loading facilities yes/no : yes
 Cement discharge independent from
 Barite/bentonite yes/no : yes

F.3.3 Surge Tank for Barite/Bentonite

Quantity no. : 2
 Capacity of each tank ft³ : 70
 Type weight load cell : Hydraulic compression
 - Manufacturer : Martin Decker
 Pressure rating psi : 45 psi design, 40 psi WP
 Relief valve(s) installed yes/no : yes

F.3.4 Mud Hopper

Quantity	no.	:	2, plus brine pump as back-up
Make/model suction		:	Vortex ventures lobe star shear/mixer dual
Feed pump make/model		:	Halco 2500 supreme
- Type/size		:	8x6x14
- Capacity	bbbl/min	:	28 bbl/min
- Drive motor hp	hp	:	100
Is feed pump dedicated to mud hopper(s)	yes/no	:	yes

F.3.5 Surge Tank for Cement

Quantity	no.	:	
Capacity of each tank	ft ³	:	
Type weight load cell		:	
- Manufacturer		:	
Pressure rating	psi	:	
Relief valve(s) installed	yes/no	:	

F.3.6 Bulk Transfer System (See also C.1.7 - 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	:	See C.3 – compressed air system
Air reduced from main air supply through pressure regulators	yes/no	:	
Separate volume tank and drier	yes/no	:	

G. CASING / CEMENT EQUIPMENT

G.1 CASING EQUIPMENT

G.1.1 Drive Hammer

Make/type		:	
Max casing/conductor OD	in.	:	

G.1.2 API Casing Drifts

For casing OD, weight, quantity	in./lbs/ft/no.	:	1 each, API cylindrical drifts with eye bolts in each end for 20"-133 ppf, 13-3/8" -68 ppf 9-5/8" -47 ppf & 7" -29 ppf
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G.1.3 Clamp-On Casing Thread Protectors

For casing OD, quantity	in./no.	:	7", 3ea Klepo inflatable
For casing OD, quantity	in./no.	:	9-5/8", 3ea Klepo inflatable
For casing OD, quantity	in./no.	:	13-3/8", 3 ea Klepo inflatable
For casing OD, quantity	in./no.	:	20", 3 ea Klepo inflatable

G.1.4 Side Door Casing Elevator

Size	in.	:	20"
Quantity	no.	:	1
Make		:	BVM
Model		:	SLX side door
Rated capacity	st	:	250 ton

Size in. : 13-3/8"
 Quantity no. : 1
 Make : BVM
 Model : SLX side door
 Rated capacity st : 250 ton

Size in. : 9-5/8"
 Quantity no. : 1
 Make : BVM
 Model : SLX side door
 Rated capacity st : 250 ton

Size in. : 7"
 Quantity no. : 1
 Make : BVM
 Model : SLX side door
 Rated capacity st : 250 ton

G.1.5 Single Joint Casing Elevators

Size in. : 20" - 13-3/8" - 9-5/8" - 7"
 Quantity no. : 1 each size
 Make : BVM
 Model : type S single joint elevator
 Rated capacity st : 5 ton

G.1.6 Slip Type Elevator/Spiders

Quantity no. : 1 each
 Make/type : PS21
 Pneumatic/Manual : pneumatic
 Capacity st : 500 ton
 Slips for OD casing sizes in : 7", 9 5/8", 13 3/8"

G.1.7 Casing Slips

Quantity no. : 1
 Make/type : BVM-CXL
 For OD casing in. : 20"

Quantity no. : 1
 Make/type : BVM-CXL
 For OD casing in. : 13-3/8"

Quantity no. : 1
 Make/type : BVM-CXL
 For OD casing in. : 9-5/8"

Quantity no. : 1
 Make/type : BVM-CXL
 For OD casing in. : 7"

G.1.8 Casing Bowls

Quantity no. : 1 set each
 Make/type :
 For OD casing (max/min) in./in. : 20" & 30", normal bowls available for other Casing sizes

G.1.9 Manual Casing Tongs

Quantity (sets) no. :
 Make/type :
 Size range (max OD/min OD) in./in. :
 Torque rating f t/lbs :

G.1.10 Power Casing Tongs

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 :

G.1.11 Power Unit For Casing and Tubing Tongs

Quantity no. :
 Make/type : NOV HPU Rig Floor
 Capacity (ea) gpm :
 Output pressure psi :
 Dedicated unit yes/no :

G.1.12 Casing Circulating Head (Swedge)

For OD casing in. :
 Connection type top/bottom :

G.1.13 Casing Spears (International)

Quantity no. : 1 each
 Make/type : Logan releasing spear assemblies
 For OD casing in. : 13-3/8", 9-5/8", 7"
 For casing weight lbs/ft : 48-68 ppf, 40-53.5 ppf, 22-33.7 ppf
 Pack-off yes/no : no

G.1.14 Casing Cutters (Internal)

Quantity no. : N/A
 Make/type :
 For OD casing (max/min) in./in. :

G.1.15 Crossover to Handle Casing with Drill Pipe

Quantity no. :
 For OD casing in. :
 Casing connection type :
 Drill pipe connection type :
 Rated capacity st :

G.1.16 Casing Scrapers

Quantity no. : 1
 Make : Logan (blades available for different Casing sizes)
 For OD casing in. : 6-5/8", 7"
 For casing weight lbs ft : 24/32 ppf, 38 ppf
 OD body in. : 5-3/8"
 Connection type : 3-1/2 reg pin

Blade type (roller/fixed)	:	
Quantity	no. :	1
Make	:	Logan (blades available for different casing sizes)
For OD casing	in. :	9-5/8", 9-7/8", 10-3/4"
For casing weight	lbs ft :	32.2 to 71.8 ppf, 62.8 to 72.1 ppf, 91.2 to 91 ppf
OD body	in. :	5-1/2"
Connection type	:	4-1/2 reg pin
Blade type (roller/fixed)	:	

G.2 CEMENTING EQUIPMENT

G.2.1 Cement Unit : Rental unit

Owner	:	Schlum
Free placement basis	yes/no :	
Make/type	:	CPS 361
No. of triplex pumps	no. :	2
Maximum working pressure	psi :	15,000psi
Maximum flow rate (total)	bbbl/min :	
Unit powered by (electric/diesel)	:	Diesel
Recirculating mixing system	yes/no :	Yes
- Capacity	bbbl :	2 x 10bbbl
- Motor power	hp :	500
Liquid additive system	yes/no :	
Pre-mix/batch tank	US gpm :	
- Quantity	no. :	
- Capacity (total)	bbbl :	
Pressure recorder	yes/no :	
Densitometer recording advice	yes/no :	

G.2.2 Cementing Manifold

Discharge manifold working pressure	psi :	15.000 psi
Cement pump discharge lines min ID	in. :	1-7/8"
Cement pump discharge lines working pressure	psi :	15.000 psi
Manifold safety pressure relief valve	yes/no :	Yes, internal sacrificial disc for both 15k and 10 k pumps

G.2.3 Cementing Standpipe

Quantity	no. :	1
Working Pressure	psi :	10.000 psi
ID	in. :	3"
Connection to choke manifold	yes/no :	yes
Connection to standpipe manifold	yes/no :	yes

G.2.4 Cementing Kelly : not equipped

G.2.5 Cementing Tubing : not equipped

H. INSTRUMENTATION/COMMUNICATION

H.1 DRILLING INSTRUMENTATION AT DRILLER'S POSITION

Rig is equipped with National Oilwell Varco's Cyber base which has a full drilling instrumentation package and data acquisition system.

H.1.1 Weight Indicator

Make/type : Varco MD-totco V-ICIS and rig sense
 Sensor type : Electronic

H.1.2 Standpipe Pressure Gauges

Quantity no. : 3 HMI's capable of displaying SPP
 Make/type : Varco MD-totco V-ICIS and rig sense
 Max. pressure reading psi : 15.000 psi

H.1.3 Choke Manifold Pressure Gauges

Quantity no. : 1
 Make/type : Houston digital
 Max. Pressure reading psi : 15.000 psi

H.1.4 Rotary Instrumentation

H.1.4.1 Tachometer

Make/type : Varco MD-totco V-ICIS and rig sense
 Maximum RPM rpm : 300

H.1.4.2 Torque Indicator

Make/type : Varco MD-totco V-ICIS and rig sense
 Maximum torque ft/lbs : 45.000

H.1.5 Top Drive Instrumentation

H.1.5.1 Tachometer

Make/type : Varco
 Maximum RPM rpm : 300

H.1.5.2 Torque Indicator

Make/type : Varco MD-totco V-ICIS and rig sense
 Maximum torque ft/lbs : 95.000

H.1.6 Pump Stoke Counters

Quantity no. : 1
 Make/type : Varco MD-totco V-ICIS and rig sense
 Stoke indicator and cumulative stroke counter
 for each pump yes/no : yes

H.1.7 Tong Torque Indicator

Make/type : Varco MD-totco V-ICIS and rig sense
 Maximum torque ft/lbs : 0-150.000
 Make/type : Varco Tong line pull load cell

H.1.8 Pit Volume Totalizer

Make/model: : Varco MD-totco V-ICIS and rig sense
 Floats in active mud tanks yes/no : Ultra sonic sensors

- Quantity per tank:	no. :	1
Floats in reserve mud tanks	yes/no :	Ultra sonic sensors
- Quantity per tank	no. :	1
Floats in mud processing tank	yes/no :	Ultra sonic sensors
- Quantity per tank:	no. :	1
Loss/gain indicator	yes/no :	yes
- Audio Alarm	yes/no :	yes
- Visual Alarm	yes/no :	yes

H.1.9 Mud Flow Indicator

Make/model	:	Varco MD-totco V-ICIS and rig sense
High/low Alarm	:	yes
- Audio Alarm	yes/no :	yes
- Visual Alarm	yes/no :	yes
Sensor location:	:	flow line

H.1.10 Trip Tank Indicator

Make/model	:	Varco MD-totco V-ICIS and rig sense
Chart recorder	yes/no :	no
Alarm	yes/no :	yes

H.1.11 Automatic Driller (see B.2.1)

H.1.12 Remote Choke Control Unit (see E.6.1)

H.1.13 Crown Clearance Indicator

Make/type	:	Integral component of V-ICIS system
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H.2 DRILLING PARAMETER RECORDER

Quantity	no. :	1
Make/type	:	MD-totco rig sense
Location - 1	:	Drillers console
- Type (display/recorder/both)	:	display
Location - 2	:	OIM office
- Type (display/recorder/both)	:	display/recorder
Number of parameters recorded	no. :	Up to 20 channels can be stored and displayed
Parameter recorded	:	Bit position, ROP, Bit weight, Block height, Depth, Hook load, Mud volume, Mud gain and Loss, pipe tally, pump strokes, pump pressure, Mud flow, rot. Rpm, rot. TQ, trip tank status, String speed, slip status.

H.3 INSTRUMENTATION AT CHOKE MANIFOLD

H.3.1 Standpipe Pressure Gauge (Drill Pipe Pressure Gauge)

Quantity	no. :	1, not displayed at choke manifold but at remote operators station in drillers cabin.
Make/type	:	Houston digital
Pressure range (max.)	psi :	10.000 psi
Visible from choke operation position	yes/no :	yes

H.3.2 Choke Manifold Pressure Gauge (Casing Pressure Gauge)

Quantity	no. :	2
Make/type	:	Retsco type F

Pressure range psi/psi : 0-15.000 psi
 Visible from choke operating position yes/no :

H.4 INSTRUMENTATION AT STANDPIPE

H.4.1 Standpipe Pressure Gauge

Quantity no. : 2
 Make/type : Anson liquid filled gauges with 6" face
 Pressure range psi/psi : 0-10.000 psi
 Visible from driller's position yes/no : no
 Visible from choke operating position yes/no : no

H.5 DEVIATION EQUIPMENT

H.5.1 Deviation Recorder

Quantity no. : 1
 Make/type : Go-devil
 Deviation range degree/degree : 0-8 degr.

H.5.2 Slick line Unit (see B.2.4)

H.6 RIG COMMUNICATION SYSTEMS

H.6.1 Rig Telephone System

No. of stations no. : 26
 Make/type : MITEL SX2000
 Explosion proof yes/no : yes

H.6.2 Public Address System

Can be combined with H.6.1 above: yes/no : yes
 No. of stations no. : 46
 Make/type : Gaitronics
 Explosion proof yes/no : yes

H.6.3 Drill Floor Talkback System

No. of stations no. : 4
 - Location : Drillers cabin, drill floor, monkey board, BOP area
 Make/type : Mentor Intercom EX771111S
 Explosion proof yes/no :

H.6.4 Hand-held VHF Radios

Make : Motorola
 Quantity no. : 10
 Quantity intrinsically safe no. : 10

H.6.5 Crane Communication System

Quantity no. : 1 in each crane (3 total)
 Make/type : Sailor, VHF-FM
 Explosion proof yes/no : yes
 Part of rig telephone system (H.6.1) yes/no : no
 Part of public address system (H.6.2) yes/no : no

H.7 ENVIRONMENTAL INSTRUMENTATION

H.7.1 Temperature Indicators

Air temperature (make/model) : Texas weather instruments / WLS 8000
 Recorder yes/no : yes
 Seawater temperature (make/model) :
 Recorder yes/no :

H.7.2 Barometric Pressure Indicator

Make/model : Texas weather instruments / WLS 8000
 Recorder yes/no : yes

H.7.3 Humidity Sensing Indicator

Make/model : available
 Recorder yes/no :

H.7.4 Wind Speed/Direction Meter

Make/model : Texas weather instruments / WLS 8000
 Recorder yes/no : yes

H.7.5 Wave Profile Recorder

Make/model :
 Recorder yes/no :

H.7.6 Current Indicator

Make/model :
 Located at :
 Recorder yes/no :

H.7.7 Weather Facsimile

Make/model : Raytheon
 Located at : Radio room
 Recorder yes/no : yes

H.8 NAVIGATION INSTRUMENTATION

H.8.1 Gyro Compass

Make/model : Raytheon
 Located at : Radio room

H.8.2 Depth Sounder

Make/model :
 Located at :
 Recorder yes/no :

H.8.3 Radar

Quantity no. :
 Make/Model :
 Located at :
 Bandwidth cm :

H.9 EXTERNAL COMMUNICATIONS EQUIPMENT

H.9.1 SSB Transceiver

Location(s)	:	Control room / radio room
Quantity	no. :	1
Make/model	:	Raytheon GMDSS Area 3 Station
Power	watts :	250
Frequency ranges (low/high)	mhz/mhz :	1.6 – 27.5
- (Synthesized crystal)	:	
Facsimile capable (see also H.9.9)	yes/no :	No
Telex capable (see also H.9.10)	yes/no :	yes

H.9.2 E.P.I.R.B.S.

Quantity	no. :	4 + 2
Make/model	:	SART McMurdo S4
Location(s)	:	Lifeboats and radio room/control room

H.9.3 Marine VHF Radio

Quantity	no. :	1
Make/model	:	Raytheon VHF 1000 DSC
Power	watts :	25
Channels	:	All international channels up to 40
Location	:	Secondary radio room

H.9.4 Aircraft Radio Beacon Transmitter

Quantity	no. :	1
Make/model	:	Southern avionics / DC-410
Power	watts :	100

H.9.5 Aeronautical VHF Transceiver

Quantity	no. :	2
Make/model - portable	:	ICOM
Power	watts :	25
Frequency range (low/high)	Mhz/MHz :	1.6 – 27.5
Synthesized./crystal	:	
Location(s)	:	Radio room

H.9.6 Watch Receiver

Quantity	no. :	1
Make/model	:	Raytheon STR 2000 R
Frequency	khz :	RX 30 KHz to 30 MHz, TX 1.6 MHz to 27.5 MHz

H.9.7 Satellite Communication System

Make/model	:	Raytheon STR 1500
Type	:	Inmarsat-C
Facsimile capable (see also H.9.9)	:	yes
Telex capable (see also H.9.10)	:	no
Locations	:	Radio room
Make/model	:	Rig Net communication

Type : internet and telephony
 Facsimile capable (see also H.9.9) : yes
 Telex capable (see also H.9.10) : no
 Locations : networked over the rig

H.9.8 Cellular

Number of phone lines no. :

H.9.9 Facsimile

Make/model : HP1500
 Connected to : Barge master office

H.9.10 Telex : not equipped

H.9.11 Scrambler : not equipped

H.9.12 Other Communication Systems : not equipped

I. PRODUCTION TEST EQUIPMENT

I.1 BURNERS : not equipped

I.2 BURNER BOOMS : not equipped.
 (Rig has kingpost installed)

I.3 PIPING ON BURNER BOOMS : not equipped

I.3.1 Oil Line

ID in. :
 Working pressure psi :
 Connection type at burner end :
 H₂S yes/no :
 Pressure gauge connection at barge end in. :

I.3.2 Gas Line

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. :

I.3.3 Water Line

ID in. :
 Working pressure psi :
 Connection type at burner end :
 Pressure gauge connection at barge end in. :

I.3.4 Air Line

ID in. :
 Working pressure psi :
 Connection type at burner end :
 Pressure gauge connection at barge end :

I.3.5 Pilot Gas Line

ID in. :
 Working pressure psi :
 Connection type at burner end :
 Pressure gauge connection at rig end :

I.4 SPRINKLER SYSTEM

System in place yes/no : yes, for accommodation space
 Pump source : fire and general service pump.

I.5 FIXED PIPING FOR WELL TESTING

I.5.1 Drill Floor to Separator Area

Type (threaded, welded, both) : welded
 Quantity no. :
 Size ID in. : 8", 6"
 Working pressure psi :
 Connection type on drill floor type : flange
 Connection type at separator type : flange
 Number of valves/lines no. : nil valves
 - Size of valves in. :
 H₂S yes/no : yes

I.5.2 Separator Area to Burner Booms

Service (oil/gas) : 2-lines
 Type (threaded, welded, both) : welded
 Quantity no. :
 Size ID in. : 4" and 6"
 Working pressure psi : 1500 psi
 Connection at separator type : Hammer union
 Connection at boom type : Hammer union
 Number of valves/lines no. : 4" (2 no.), 6" (2 no.)
 - Size of valves in. :
 H₂S yes/no : yes
 Valves installed near separator area for switching gas to either burner yes/no : yes

I.5.3 Water Lines to Burner Booms

Type (threaded/welded/both) : welded
 Quantity no. : port/starboard
 Size ID in. : 3"
 Working pressure psi : 2000 psi
 Number of valves required no. : 2
 - Size of valves in. : 3"
 Pump source : HP mudpump – 7500 psi
 Rated line capacity at 300 psi bbl/hr :

I.5.4 Air System To Burner Booms

Type (threaded/welded/both) : welded
 Quantity no. : 2"
 Size ID in. : 2"
 Working pressure psi : 125 psi
 Non-return valves fitted yes/no : no

Air Source : rig air compressors

I.5.5 Oil Storage Tank To Offload

Type (threaded/welded/both) :
 Quantity no. :
 Size ID in. :
 Working pressure psi :
 Connection at separator area type :

I.5.6 Separator To Vent Stack Of Rig

Type (threaded/welded/both) : welded/flange
 Quantity no. : 2
 Size ID in. : 10" / 6"
 Working pressure psi :
 Connection at separator area type : flange

I.6 AUXILIARY POWER AVAILABILITY N/A

I.6.1 For Field Laboratory

Quantity no. :
 Volts volts :
 Frequency hz :
 Breaker amp :

I.6.2 For Crude Transfer Pump

Quantity no. :
 Volts volt :
 Frequency hz :
 Breaker amp :

I.6.3 For Electric Heaters

Quantity no. :
 Volts volts :
 Frequency hz :
 Breaker amp :

J. WORKOVER TOOLS

K. ACCOMMODATION

K.1 OFFICES

K.1.1 Company Representative's Office

Quantity no. : 1
 - No. of combination office/staterooms in above no. :
 Complete with desk, filing cabinets and other
 necessary furniture yes/no : Yes
 Quantity with unrestricted view to drill floor no. : Yes

K.1.2 Contractor Representative's Offices (third party)

Quantity no. : 1

Quantity with unrestricted view to drill floor no. : Yes

K.1.3 Control Room

Quantity no. : 1
 Located at

K.1.4 Radio Room

Quantity no. : 1

K.1.5 Helicopter Ready Room

Quantity no. : 1

K.1.6 Hospital Room

Number of beds/bunks no. : 2
 Dangerous drugs locker yes/no : Yes

K.2 LIVING QUARTERS

K.2.1 Accommodations

Total beds: no. : 110
 - No. of beds per room type (1, 2, 3, etc.) no. : 1
 - Number of rooms no. : 4
 - Toilets (private/shared/communal) no. : Private
 - Showers (private/shared/communal) no. : Private

 - No. of beds per room type (1, 2, 3, etc.) no. : 2
 - Number of rooms no. : 21
 - Toilets (private/shared/communal) : Share
 - Showers (private/shared/communal) : Share

 - No. of beds per room type (1, 2, 3, etc.) no. : 4
 - Number of rooms no. : 16

K.2.2 Galley

Quantity no. : 1

K.2.3 Mess Seating Capacity

Main mess no. : 50
 Aux. mess no. : NIL

K.2.4 Meeting Rooms (conference room)

Quantity no. : 1

K.2.5 Recreation Rooms

Quantity: no. : 2
 Recreation facilities:
 - TV no. :
 - VCR no. :
 - Pool Table no. :

- Ping Pong Table	no. :	
- Computer	no. :	
- Workout/Weight Room	no. :	
- Other	:	

K.2.6 Other Rooms

Change Rooms	no. :	1
Prayer Rooms	no. :	NIL
Cinema	no. :	
Other (offices) -GEOLOGIST	:	1
Library	:	1

L. SAFETY EQUIPMENT

L.1 GENERAL SAFETY EQUIPMENT

L.1.1 General Personnel Protective Gear

Safety Glasses		
- (Contractor/everyone/not supplied)	:	Contractor
Safety Hats		
- (Contractor/everyone/not supplied)	:	Contractor
Safety boots		
- (Contractor/everyone/not supplied)	:	Contractor
Safety clothing		
- (Contractor/everyone/not supplied)	:	Contractor
Ear protection		
- (Contractor/everyone/not supplied)	:	Everyone
Rubber gloves		
- (Contractor/everyone/not supplied)	:	Contractor
Rubber aprons		
- (Contractor/everyone/not supplied)	:	Contractor
Rubber gloves - elbow length		
- (Contractor/everyone/not supplied)	:	Contractor
Full face visors		
- (Contractor/everyone/not supplied)	:	Contractor
Eye shields (for grinders)		
- (Contractor/everyone/not supplied)	:	Everyone
Dust masks		
- (Contractor/everyone/not supplied)	:	Contractor
Explosion proof hand torches		
- (Contractor/everyone/not supplied)	:	Contractor
Safety belts c/w lines		
- (Contractor/everyone/not supplied)	:	Contractor

L.1.2 Decontamination Stations

L.1.2.1 Eye Wash Stations : 10

Quantity - fixed	no. :	10
Make/model	:	
Location(s)	:	Drill Floor, Shakers, Mud lab, Mechanical Workshop, Engine, Room, Cement Room, Mixing Hopper, Paint Locker, Battery Room
Quantity - portable	no. :	
Make/model	:	
Location(s)	:	

L.1.2.2 Safety Showers

Quantity no. : 5
 Location(s) : Mud Pit Room, Cement Room, Mixing Hopper, Drill Floor, Shakers.

L.1.3 Derrick Safety Equipment

Derrick escape chute (rem chute) no. : 2 Sala
 - Make/type :
 Geronimo line yes/no :
 Derrick Safety Belts no. : 2 Protector
 - Make/type :

L.1.4 Derrick Climbing Assistant

Make/type :

L.1.5 Fresh Air Blowers (Bug Blowers)

Quantity no. : 7+2
 Make/type : Hisson Fan TF-4 Brant B250 2700208
 Located at : 4x Engine room, 3x Mud pit room
 Located at : 2xRig floor

L.2 GAS/FIRE/SMOKE DETECTION

L.2.1 H₂S Monitoring System : Yes

Make/type : Detronics Model: U9500B2002

Sampling points at: 0-100ppm
 - Bell nipple yes/no : Yes
 - Drill floor yes/no : Yes
 - Shale shaker yes/no : Yes
 - Mud tanks yes/no : Yes
 - Ventilation system into living quarters yes/no : Living quarters, Cellar deck. Mud Room
 Return Line, (24 Total)
 -Other Trip Tank

Alarms at:
 - Drillers console (audible/visual/both) : Yes
 - Engine Room (audible/visual/both) : Yes
 - Mud room (audible/visual/both) : Yes
 - Living quarters each level (audible/visual/both) : Yes
 - Central area each structural level (Audible/visual/both) : Yes
 - Other
 - Tied to general alarm yes/no : Yes
 Central control panel yes/no : Yes
 - Located at :
 Local alarm (audible/visual/both) :

L.2.2 Combustible Gas Monitoring System

Make/type	:	Detronics Model: Pire Claiain
Sampling points at:		0-100LEL
- Bell nipple	yes/no :	Yes
- Drill floor	yes/no :	Yes
- Shale shakers	yes/no :	Yes
- Mud tanks	yes/no :	Yes
- Ventilation system into living quarters	yes/no :	Yes
- Other	:	
Alarms at:		
- Drillers console (audible/visual/both)	:	Yes
- Engine room (audible/visual/both)	:	Yes
- Mud room (audible/visual/both)	:	Yes
- Living quarters each level (audible/visual/both)	:	Yes
- Central area each structural level (audible/visual/both)	:	Yes
- Other	:	
- Tied to general alarm	yes/no :	Yes
Central Control Panel	yes/no :	Yes
- Located at	:	Equipment Room near Radio Room
Local Alarm (audible/visual/both)	:	Yes

L.2.3 H₂S Detectors (Portable)

Quantity	no. :	10
Make/type	:	
Stain tubes for H ₂ S; measuring range:		Draeger PAC 7000H ₂ S
From 1 to 20 percent	:	0-50 ppm
From 100 to 600 percent	:	

L.2.4 Explosion meters

Quantity	no. :	2
Make/type	:	Draeger x-am

L.2.5 CO₂ Gas Detectors (Portable)

Quantity	no. :	2
Make/type	:	Draeger PAC 7000S _O ₂
Stain tubes for CO ₂ ; measuring range:		
- From 1 to 20 percent	% :	Multi detector
- From 5 to 60 percent	% :	

L.2.6 O₂ Meter (Portable)

Quantity	no. :	Include in MSA Detectors
Make/type	:	

L.2.7 Fire/Smoke Detectors in Accommodation

Make/type	:	Notifier	F SP-851
Fire detection	yes/no :	Yes	
Smoke detection	yes/no :	Yes	
Heat detection	yes/no :	Yes	
Flame detection	yes/no :	Yes	
Central control panel	yes/no :	Yes	
- Location	:	Radio Room/OIM Office	
Alarms:	no. :		
Pull boxes	no. :		

L.3 FIRE FIGHTING EQUIPMENT

L.3.1 Fire Pumps

Quantity	no. :	2 each
Make/model	:	Hamworthy
Type	:	B125HEC1 Centrifugal
Output (each)	US gpm :	400
Location	:	Lower machinery deck Sack room

Quantity	no. :	
Make/model	:	
Type	:	
Output (each)	US gpm :	
Location	:	
All off take points supplied by all pumps	yes/no :	Yes

L.3.2 Hydrants and Hoses

Hydrants positioned such that any point may be reached by a single hose length from two separate hydrants

	yes/no :	Yes
Quantity of hydrants	no. :	39
Hose connections/hydrant	no. :	39
Hose max diameter	in. :	2"
Length	ft :	Standard

L.3.3 Portable Fire Extinguishers

Quantity (total)	no. :	62 + spares
Type 1 - CO ₂	no./lbs :	1 x 40lb
	no./lbs :	27 x 151
	no./lbs :	4 x 5lb
Type 2 - Dry chemical	no./lbs :	2 x 50lb
	no./lbs :	19 x 5lb
Type 3 – Foam	no./lbs :	1 x 45lt
	no./lbs :	9 x 9.5lt
	no./lbs :	1 x 20lt
Water	no./lbs :	Nil
	no./lbs :	
	no./lbs :	
Halon	no./lbs :	Nil

L.3.4 Fire Blankets

Quantity	no. :	Minimum 3 Paint, Locker, Gallery, Welding Shop
Location(s)	:	

L.3.5 Fixed Foam System

Make/type	:	Diff's Pop up Type
Quantity of foam concentrated stored	US gal :	
Foam type	:	
Application rate	US :	

Foam nozzles no. :
 - Located at :
 Automatically injected into fixed fire
 Water system yes/no :

L.3.6 Helideck Foam System

Make/type : Diffs
 Quantity of Nozzles no. : 10
 Quantity of foam concentrate stored US gal : 55
 Foam type : 1% AFFF
 Application rate US gpm : 613.47

L.3.7 Fixed Fire Extinguishing System

Protected spaces:
 Engine room, type (Halon/CO₂/other) : CO₂
 - Remote manual release located at : Lower Machinery, Upper Machinery
 Paint locker, type (Halon/CO₂/other) : CO₂
 - Remote manual release located at : Main Deck
 Emergency generator (Halon/CO₂/other) : CO₂
 - Remote manual release located at : Main Deck
 Galley, type (Halon/Co-2/other) : Wet Chemical
 -Remote Manual release at : Galley
 Electrical room, type (Halon/CO₂/other) : CO₂
 - Remote manual release located at :
 VFD room, type (Halon/CO₂/other) :
 - Remote manual release located at : Upper Machinery Deck
 Other (specify location and type) : Engine Room
 - Remote manual release located at : Lower Machinery Deck
 Alarms (audio, visual, both) : Yes
 Automatic shutdown of ventilation fans in
 Protected spaces yes/no : Yes

L.3.8 Manual Water Deluge System

Protected spaces : Lifeboat Area, Port and Starboard
 Water supplied from fire main line yes/no : Yes

L.3.9 Water Sprinkler System in Accommodation Yes

Automatic activation yes/no : No
 Working pressure psi :
 Tank capacity gal : 792
 Salt water backup yes/no : No
 Type (wet pipe/dry pipe) : Wet

L.4 BREATHING APPARATUS

L.4.1 General Sets

Quantity no. : 9
 Make : Draeger P/N 1022201
 Type (demand/positive pressure) : Positive
 Cascade system quick connects yes/no : No
 Cylinder duration min : 30
 Located at qty/loc : 2 x Drill Floor
 Located at qty/loc : 3x Fire Box 1
 Located at qty/loc : 2 x Fire Box 2

Located at qty/loc : 2x Heli-deck

L.4.2 Escape Sets

Quantity no. : 15
 Make : Draeger
 Type (demand/positive pressure) : OXYK30HS
 Cascade system quick connect yes/no : no
 Cylinder duration min : 30
 Located at qty/loc :
 Quantity no. :
 Make :
 Type (demand/positive pressure) :
 Cascade system quick connect yes/no :
 Cylinder duration min :
 Located at qty/loc :

L.4.3 Cascade Stations : not equipped

L.4.4 Breathing Air Recharge Compressor

Quantity no. : Nil
 Make/type :
 Compressed air storage capacity ft³ :
 - Working pressure psi :
 Located at :
 Located at :

L.4.5 Compressed Air Breathing Apparatus Trolley Unit

Make :
 Type (demand/positive pressure) :
 Air line length ft : Nil
 Compressed air storage capacity ft³ :
 - Working pressure psi :
 Including:
 - Face mask yes/no :
 - Demand valve yes/no :
 - Microphone yes/no :
 - Safety harness yes/no :
 - Safety line (inc. telephone line) yes/no :

L.4.6 Breathing Air Purity Test Equipment

Quantity no. :
 Make/type :

L.5 EMERGENCY FIRST AID EQUIPMENT

L.5.1 First Aid Kits

Quantity no. : 5

L.5.2 Burn Kits :

Quantity no. : 1

L.5.3 Resuscitators : Yes

Quantity no. : 2
 Charged (spare) oxygen cylinders no. : 4

L.5.4 Stretchers

Quantity no. : 3
 Type : Standard/Scoop
 Located at : Clinic

Quantity no. : 1
 Type : Standard
 Located at : Drill Floor

L.6 HELIDECK RESCUE EQUIPMENT

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
 Grapple hook yes/no : Yes
 - Length of wire rope attached ft : Yes
 Quick release knife yes/no : Yes
 Bolt croppers yes/no : Yes
 Fireman's outfit yes/no : Yes
 CO₂ lance yes/no : Yes
 Other Ladder

L.7 EMERGENCY WARNING ALARMS

Approved system to give warning of different emergencies yes/no : Yes
 Activated from drill floor yes/no : Yes

L.8 SURVIVAL EQUIPMENT

L.8.1 Lifeboats

Make/type : Jiangyin Neptune Marine NPT95F
 Quantity no. : 2 x Watercraft
 Capacity person/craft : 110
 Locations (fwd/aft/port/stbd) : Port/STBD
 Fire protection yes/no : Yes
 Radio/EPIRB (see section H.9) : Yes

L.8.2 Life rafts

Make/type : Youlong China KHA25
 Quantity no. : 5
 Capacity persons/craft : 25
 Davit launched yes/no : no
 Locations (fwd/aft/port/stbd) : Port and Starboard

L.8.3 Fast Rescue Boat

Make/type : Jiangyin Neptune Marine/NPT60RB

Engine power hp : 80

L.8.4 Personal Floatation Devices

Make/type : RFD
Quantity no. : 220

L.8.5 Survival Suits : Nil

Make/type :
Quantity no. :

L.8.6 Life Ring Buoys

Make/type :
Quantity total no. : 10
- With lights no. : 4
- With smoke no. : 2
- With EPIRB no. :

L.8.7 Work Vests

Quantity no. : 20

L.8.8 Escape Ladder / Nets

Make/type :
Quantity no. : 2 Rope

Make/type :
Quantity no. : 3, 1 in each leg well

M. POLLUTION PREVENTION EQUIPMENT

M.1 SEWAGE TREATMENT

Make/model : Omnipure 12mc
System type : Sewage Treatment Unit IMO Approved

M.2 GARBAGE COMPACTION

Make/model : 1 x unit
System type : Dolphin 40 Cu Ft Air

M.3 GARBAGE DISPOSAL/GRINDER

Make/model : 1 x unit
System type : Dolphin 40 Cu Ft Air

M.4 INCINERATOR

Make/model : Nil
System/type :

M.5 OILY WATER SEPARATOR

Quantity no. : 1
Make/model : SKITS/S-DEB

S/N			8983
RWO order#			9029043
Built		:	2007
Capacity	:	5m-3/h	