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**IADC EQUIPMENT LIST**

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**EQUIPMENT LIST**

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**A. UNIT SPECIFICATIONS GENERAL**

Unit name :

Rig type :

Unit / design / shape :

Unit flag :

Unit classification

:

Owner

IMO Certification :

:

- Which code version

Year of construction :

Construction yard :

Date of use :

Annual Survey next due date :

UWILD or DryDock next due date :

Special Periodical Survey - Renewal Survey

Due Date :

**A.1 MAIN DIMENSIONS / TECHNICAL DESCRIPTION**

Light ship kips :

Displacement at loadline kips :

Draft at loadline (deepest) ft :

Overall length of unit (inc. helideck) ft :

Overall width of unit (inc. anchor racks) ft :

Hull length ft :

Hull width ft :

Hull depth ft :

Number of legs/length no. x ft :

Leg length available below hull ft :

Type of leg :

Leg spacing (centre to centre):

- Transverse ft :

- Longitudinal ft :

Independent leg or mat :

Spud can diameter/bearing area ftxft2 :

Spud can bearing pressure kips/ ft2 :

Spud can height ft :

Spud can jetting system yes/no :

- Bottom jets yes/no :

- Top jets yes/no :

- Side jets yes/no :

- Upper Jets yes/no :

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**IADC EQUIPMENT LIST**

Water supply from mud pumps yes/no :

Pressure psi :

Mat dimensions:

- Length ft :

- Width ft :

- Depth ft :

Cantilever or slot :

Skid-off yes/no :

Cantilever envelope:

- Reach aft, from/to ft/ft :

- Transverse, port/stbd ft/ft : -

Slot dimensions:

- Length ft :

- Width ft :

Mat slot dimensions:

- Length ft :

- Width ft :

Max cantilever load

(Combined hook + rotary + setback) kips :

Max rotary load kips :

Max setback load kips :

Fuel consumption (avg. drilling) bbl/day :

Accommodation for maximum number

personnel no. :

(See K.2.1)

**A.2 STORAGE CAPACITIES**

Fuel bbl :

Drilling water bbl :

Potable water Bbl :

Mud processing tank (see F.2) Bbl :

Active liquid mud (see F.2) Bbl :

Independent oil base mud storage: Bbl :

- Agitated yes/no :

Independent base oil storage Bbl :

Independent brine storage Bbl :

- Heavy brine accepted (e.g. bromide) yes/no :

Bulk bentonite/barite (see F.3) ft3 :

Bulk cement (see F.3) ft3 :

Sack storage Sacks :

Pipe rack t :

- Upper racks dimensions ft x ft :

- Maximum load capacity lb/ft2 :

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**IADC EQUIPMENT LIST**

- Lower rack dimensions ft x ft :

- Maximum load capacity lb/ft2 :

Other rack (port) ft x ft :

- Maximum load capacity lb/ft2 :

Other rack (starboard) ft x ft :

- Maximum load capacity lb/ft2 :

Miscellaneous storage area ft2 :

Operator storage area ft2 :

Preload capacity st :

- Time to fill and dump preload hrs :

**A.3 JACK-UP SYSTEMS**

**A.3.1 Jacking Systems**

Make/type :

No. of jacking units/pinion drives no. :

Maximum jacking load ton :

Jacking speed ft/min :

Rack chocks available yes/no :

- Required for field tow yes/no :

- Required for ocean tow yes/no :

**A.3.2 Raw Water Systems**

Pump location (water tower or leg) :

Suction distance below hull (max) ft :

Salt water service pump:

- Quantity no. :

- Make-type :

- Capacity m3/h :

- Pressure psi :

Horsepower hp :

Dedicated preload pumps

- Quantity no. :

- Make/type :

- Capacity bbl/min :

- @ pressure psi :

Horsepower hp :

**A.3.3 Corrosion protection**

Anodes Fitted yes/no. :

Located in spud cans :

Located on legs yes/no. :

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**IADC EQUIPMENT LIST**

Located in sea chests yes/no. :

Located in preload tanks yes/no. :

Impressed current system installed yes/no. :

Anti-fouling system fitted yes/no. :

water pumps and the sea chest)

Corrosion Protection design life :

**A.4 OPERATIONAL CAPABILITIES**

Max designed water depth capability ft :

Outfitted max water depth capability ft :

Normal min water depth capability ft :

Drilling depth capability (rated) ft :

Transit speed towed (historical average) knots :

Leg (spud can) below hull in transit ft :

Max leg length permitted in tow: :

- Ocean tow (wet) ft :

- Field tow ft :

Number of tugs for field tow no. :

Associated min bollard pull per tug t :

Anti-roll system yes/no :

Maximum preload reaction per leg kips :

Bearing pressure at max preload lb/ft2 :

Thrusters yes/no :

- Quantity no. :

- Fixed/Azimuthing :

- Total horsepower per thruster hp :

**A.5 VARIABLE LOAD CAPACITY**

(VL)

Transit VL capacity MT :

Drilling VL capacity MT :

Survival VL capacity MT :

Jacking VL capacity MT :

**A.6 ENVIRONMENTAL LIMITS**

Transit:

- Max. wave height ft :

- Max. wave period sec :

- Max. wind velocity knots :

\- Max. current velocity knots :

- Max. heave (double amplitude) ft :

- Max. pitch (double amplitude) degrees :

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**IADC EQUIPMENT LIST**

- Max. roll (double amplitude) degrees :

Working Water Depth ft :

Drilling:

- Air gap (below bottom main hull) ft :

- Max. wave height ft :

- Max. wave period sec :

- Max. wind velocity knots :

- Max. current velocity knots :

Survival:

- Air gap (below bottom main hull) ft :

- Max. wave height ft :

- Max. wave period sec :

- Max. wind velocity knots :

- Max. current velocity knots :

Jacking

Maximum wave height ft :

Maximum wave period sec :

Maximum wind velocity knots :

Maximum pitch (double amplitude) degrees :

Maximum roll (double amplitude) Degrees :

**A.7 MOORING SYSTEM**

**A.7.1 Anchor Winches**

Quantity :

Make/model :

Type (electric/hydraulic/diesel) :

Total HP per winch hp :

Rated pull st :

Control locations (local/remote/both) :

**A.7.2 Anchors**

Quantity no. :

Make/type :

Weight lbs :

**A.7.3 Anchor Lines**

Wire: :

- Quantity (installed + spare) no. :

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**IADC EQUIPMENT LIST**

- type :

- Construction :

- Diameter in. :

- Useful length (nominal) ft :

**A.7.4 Towing Gear**

Towing bridle chain size in. :

Hook-up system :

Rating kips :

Spare bridle yes/no :

**A.7.5 Supply Vessel Mooring System**

System description :

Rating :

Location (port/stbd/both) :

**A.8 MARINE LOADING HOSES**

Location of loading manifolds (port/stbd/both) :

**A.8.1 Potable Water Hoses**

Quantity no. :

Size in. :

Make/type :

Color coding yes/no :

Make/type connection :

**A.8.2 Drilling Water Hose**

Quantity no. :

Size in. :

Make/type :

Color coding yes/no :

Make/type connection :

**A.8.3 Fuel Oil Hose (Diesel oil)**

Quantity no. :

Size in. :

Make/type :

Color coding yes/no :

Make/type/connection :

**A.8.4 Liquid Mud Hose**

Quantity no. :

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**IADC EQUIPMENT LIST**

Size in. :

Make/type :

Color coding :

Make/type connection yes/no :

**A.8.5 Bulk Cement Hose**

Quantity no. :

Size in. :

Make/type :

Color coding yes/no :

Make/type connection :

**A.8.6 Brine Hose**

Quantity no. :

Size in. :

Make/type :

Color coding yes/no :

Make/type/connection :

**A.8.7 Dirty Oil**

Quantity no. :

Size in. :

Make/type :

Color coding yes/no :

:

Make/type connection

**A.9 CRANES, HOISTS AND MATERIAL HANDLING**

**A.9.1 Cranes, Revolving**

Quantity no. :

Specification (API etc) :

Make :

Type

Location (port-fwd)

Boom length ft :

Hook reach below main deck (block/whip) ft/ft :

Line length (block TBD / whip TBD) Block capacities and hoisting speeds:

- Load/radius/speed (min radius) st/ft(ft/sec) :

- 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 :

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**IADC EQUIPMENT LIST**

- Alarm (audible, visual, both) :

Automatic brake yes/no :

Safety latch on hooks yes/no :

Crown saver (limit switch) yes/no :

Boom illumination yes/no :

**CCTV** yes/no :

Quantity no. :

Specification (API etc) :

Make :

Type :

Location (port-fwd) :

Boom length ft :

Hook reach below main deck (block/whip) ft/ft :

Line length (block TBD / whip TBD) Block capacities and hoisting speeds:

- Load/radius/speed (min radius) st/ft(ft/sec) :

- 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 :

- Alarm (audible, visual, both) :

Automatic brake yes/no :

Safety latch on hooks yes/no :

Crown saver (limit switch) yes/no :

Boom illumination yes/no :

**CCTV** yes/no :

Quantity no. :

Specification (API etc) :

Make :

Type :

Location (port-fwd) :

Boom length ft :

Hook reach below main deck (block/whip) ft/ft :

Line length (block TBD / whip TBD) Block capacities and hoisting speeds:

- Load/radius/speed (min radius) st/ft(ft/sec) :

- 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 :

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**IADC EQUIPMENT LIST**

- Alarm (audible, visual, both) :

Automatic brake yes/no :

Safety latch on hooks yes/no :

Crown saver (limit switch) yes/no :

Boom illumination yes/no :

**CCTV** yes/no :

Quantity no. :

Specification (API etc) :

Make :

Type :

yoke for 2 7/8” to 20” tubulars

Location (fwd/aft/port/stbd) :

Boom length ft :

Hook reach below main deck (block/whip) ft/ft :

Block capacities and hoisting speeds:

- Load/radius/speed (min radius) st/ft(ft/sec) :

- 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 :

- Alarm (audible, visual, both) :

Automatic brake yes/no :

Safety latch on hooks yes/no :

Crown saver (limit switch) yes/no :

Boom illumination yes/no :

**A.9.2 Forklifts**

Quantity no. :

Make/type :

Rated capacity st :

Explosion proof yes/no :

**A.9.3 Monorail Overhead Cranes**

Quantity no. :

Type :

Rated capacity st :

Location(s) :

**A.9.4 Air Hoists / Derrick Winches**

**A.9.4.1Rig Floor Winches (Non man-riding)**

Quantity no. :

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**IADC EQUIPMENT LIST**

Make :

Type :

Rated capacity lbs :

Hoisting Speed m/min :

Wire diameter in :

Automatic Disc brakes yes/no :

Overload protection yes/no :

Automatic spooling yes/no :

**A.9.4.2 Monkey Board Work Winch**

Quantity no. :

Make :

Type :

Rated capacity lbs :

Line speed fpm :

Wire diameter in :

Automatic brakes yes/no :

Overload protection yes/no :

Automatic spooling yes/no :

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

Quantity no. :

Make :

Type :

Rated capacity lbs :

Hoisting Speed mpm :

Wire diameter in. :

Non-twisted wire yes/no :

Automatic brakes yes/no :

Overload protection yes/no :

Automatic spooling yes/no :

**A.9.4.4 Utility Winch (i.e. Deck Winch)**

Quantity no. :

Make :

Type :

Rated capacity lbs :

Hoisting Speed mpm :

Wire diameter in :

Automatic Disc brakes yes/no :

Overload protection yes/no :

Automatic spooling yes/no :

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**IADC EQUIPMENT LIST**

Locations :

**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. :

:   
Make/type :

**A.9.5.2 Cargo Containers**

Quantity no. :

Make/type :

**A.9.6 Vacuum Sack lifter**

Quantity no. :

Make /Model :

**A.10 HELICOPTER LANDING DECK**

Location (fwd/aft/port/stbd) :

Dimensions ft/ft :

Perimeter safety net yes/no :

Deck Load capacity lb/ft2 :

Maximum helicopter weight kips :

Designed for helicopter type :

Tie down points yes/no :

Covered by foam fire system (see L.3.6) yes/no :

**A.10.1 Helicopter Refueling System**

System make/type :

Fuel storage capacity US gal :

Jettisonable yes/no :

Fuel transport containers no. :

- Volume US gal :

Covered by foam fire system (see L.3.6) :

**A.11 AUXILIARY EQUIPMENT**

**A.11.1 Water Distillation**

Quantity no. :

Make/type :

U.V. Sterilizer no. :

Make/type :

Capacity :

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**IADC EQUIPMENT LIST**

Booster heater yes/no :

Make/type :

Effect kW :

**A.11.2 Boilers**

Quantity no. :

Make/type :

Capacity (total system) lbs/hr :

**A.11.3 Air Conditioning**

Make/type :

Cooling Capacity (total system) kw :

Max temperature rating oF :

**A.11.4 Electric Welding Sets**

Quantity no. :

Current capacity amp :

Make/model :

- Type (fixed/portable) :

**A.11.5 High Pressure Cleaner**

Quantity no. :

Make/type :

Electronic/pneumatic/diesel :

Max delivered pressure psi :

- With steam yes/no :

High pressure lance and hose no. :

**A.11.6 Fuel oil purifier**

Quantity no. :

1 future provision to be reserved

Make/type :

Capacity :

Sludge removal kit yes/no :

**A.11.7 Ballast , Bilge, Fire, Drill, Pot Water Oil and Fuel system Pumps**

Quantity no. :

Make :

Type :

Capacity Bbl/min :

Part of VMS yes/no :

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**IADC EQUIPMENT LIST**

Monitored on alarm screens yes/no :

Quantity no. :

Make :

Type :

Capacity :

Part of VMS yes/no :

Monitored on alarm screens yes/no :

Monitored on alarm screens yes/no :

**A.11.8 Diaphragm Sump Pumps**

Quantity no. :

Make :

Type :

Capacity :

Part of VMS yes/no :

Monitored on alarm screens yes/no :

**B. GENERAL RIG SPECIFICATIONS**

**B.1 DERRICK AND SUBSTRUCTURE**

**B.1.1 Derrick/Mast**

Make/Type :

Rated For Windspeed m/s :

- With Full Set Back m/s :

- With No Set Back m/s :

Height ft :

Dimensions Of Base ft x ft :

Dimension Of Crown ft x ft :

Gross Nominal Capacity metric ton :

Maximum Static Hook Load metric ton :

Maximum Number Of Lines no. :

Ladders With Safety Cages And Rests Yes/no :

Platform For Crown Sheaves Access Yes/no :

Counter Balance, System For Rig Tongs And

Pipe Spinning Tongs Yes/no :

Lighting System Explosion Proof Yes/no :

Block Hang Off Line Yes/no :

**B.1.2 Racking Platform**

Make/Type :

Total Current Simultaneous Capacity-Drill Pipe:

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**IADC EQUIPMENT LIST**

5 ½” DP: ft :

6-3/4" DP: ft :

8” DC: (alternative to 6-3/4” DP) ft :

9 ½" DC: ft :

Tubing belly board Yes/no :

**B.1.3 Automated Pipe Handling**

Make/Type :

Vertical Column Racker

Description :

Tubular Handling Capacities

- Racking Gripper Head in/lb :

Make/Type :

Description :

Tubular Handling Capacities

- Catwalk Ramp in :

- Monkey Arm in :

**B.1.4 Casing Stabbing Board**

Make/Type :

Adjustable From/To Height Above Rotary ft / ft :

**B.1.5 Substructure**

Make/Type :

Drill Floor Height (Above Main Deck) ft :

Length ft :

Width ft :

Setback Capacity kips :

Simultaneous Setback-Hook Load Capacity kips :

Rotary Beam Capacity (Total) kips :

Clear Height Below Rotary Table Beams

(To Main Deck) ft :

**B.1.6 Weather Proofing**

Rig Floor Windbreaks Yes/no :

- Height ft :

Derrickman Windbreaks Yes/no :

- Height ft :

Around Process Pits Yes/no :

- Height ft :

**B.1.7 Derrick TV Camera System**

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**IADC EQUIPMENT LIST**

Camera Located At

:

Service & Access Basket, Crown Block

Make/Type :

Zoom/Pan/Tilt-Function Yes/no :

Monitor Located At :

**B.2 DRAWWORKS AND ASSOCIATED EQUIPMENT**

**B.2.1 Drawworks**

Make/type :

Motors make/type :

- Quantity no. :

Rated power (600V) hp :

Drum size (diameter & length) in x in :

Drum type (grooved/smooth) :

- For drill line size in :

Brake type (disk/drum) :

Max load @ 14 lines metric ton :

Max load @ 12 lines metric ton :

Max load @ 10 lines metric ton :

Makeup cathead type :

Breakout cathead type :

Crown block safety devices yes/no :

- Make/type :

Independent fresh water cooling system for

drawworks and electric brake yes/no

:

Automatic driller yes/no :

Make/type :

**B.2.2 Auxiliary Brake**

Make :

Model :

Independent back-up system type :

**B.2.3 Sandline**

Make :

Length capacity ft :

Line size/type in. :

Breaking strength lbs :

Safe working load lbs :

**B.2.4 Slickline Unit**

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**IADC EQUIPMENT LIST**

Make/model :

Wire length (nominal) ft :

Wire size in. :

Breaking strength lbs :

Safe working load lbs :

Depth counter yes/no :

Pull indicator lbs :

**B.3 DERRICK HOISTING EQUIPMENT**

**B.3.1 Crown Block**

Make/type :

Rated capacity st :

No. of sheaves no. :

Sheave diameter in. :

Sheave grooved for line size in. :

**B.3.2 Travelling Block**

Make/type :

Rated capacity metric ton :

No. of sheaves no. :

Sheave diameter in. :

Sheave grooved for line size in. :

**B.3.3 Hook**

Make/type :

Rated capacity metric ton :

Complete with spring assembly/hook locking

device yes/no :

**B.3.4 Swivel**

Make/type :

Rated capacity st :

Test/working pressure psi/psi :

Gooseneck and washpipe min ID in. :

Left hand pin connection type in. :

Access fitting for wireline entry on top of

gooseneck yes/no :

**B.3.5 Drilling Line**

Diameter in. :

Construction :

Length (original) ft :

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**IADC EQUIPMENT LIST**

Drilling line reel :

- Drum cover yes/no :

- Drilling line drum power driven yes/no :

Spare drilling line yes/no :

- Location (rig, shore, etc) :

Roller guides yes/no :

**B.3.6 Dead Line Anchor**

Make/type :

Weight sensor yes/no :

Dead line dampener yes/no :

**B.3.7 Block Guidance System**

Make/type :

**B.4 ROTATING SYSTEM**

**B.4.1 Rotary Table**

Make / type :

Maximum opening diameter in. :

Rated capacity metric tons :

Two speed gearbox yes/no :

Emergency chain drive yes/no :

Driven by an independent electric motor yes/no :

- Output power hp :

- Maximum torque ft-lbs :

Drip pan/mud collection system yes/no :

**B.4.2 Master Bushings**

Make/type :

Inserts bowls (see G.1.8) :

**B.4.3 Kelly Bushing**

Make/type :

Lock down assembly yes/no :

**B.4.4 Top Drive**

Make / type :

Type (electric/hydraulic) :

Rated capacity metric ton :

Test/working pressure psi/psi :

Output power hp :

Maximum continuous torque ft-lbs :

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**IADC EQUIPMENT LIST**

Max intermittant torque ft-lbs :

Two speed gear box yes/no :

Maximum rotary speed rpm :

Remote operated kelly cock yes/no :

Cooling system type :

Upper Inside BOP (see also D.1.15)

- Quantity no. :

- Make/type :

- Working pressure psi :

- Max. OD body in. :

- Min. ID body in. :

- Connection type (box) :

-Connection type (bottom) :

**B.4.4.1 Top Drive Makeup/Breakout System**

Make/Type :

Model :

Max. makeup torque ft-lbs :

Max. breakout torque ft-lbs :

Raised backup system yes/no :

- Make/type: :

- Working height (range) ft/ft :

**C. POWER SUPPLY SYSTEMS**

**C.1 RIG POWER PLANT**

**C.1.1 Diesel Engines**

Quantity no. :

Make/type :

Maximum continuous power kVA :

At rotation speed of rpm :

Equipped with spark arrestors yes/no :

Mufflers installed yes/no :

Water cooled yes/no :

Total Fuel Consumption, Drilling (av) bbl/day :

**C.1.2 DC - Generator**

Quantity no. :

Make/type :

Continuous power kW :

- At rotation speed of rpm :

Output volts volts :

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**IADC EQUIPMENT LIST**

**C.1.3 AC - Generator**

Quantity no. :

Make/type :

Continuous power kW :

- At rotation speed of rpm :

Output volts L-L volts :

**C.1.4 SCR System**

Number of SCR no. :

Make/type :

Maximum continuous power (total) kw :

Output volts volts :

Quantity no. :

Make :

Model :

Rated capacity st. :

Size in. :

Quantity no. :

Make :

Model :

Rated capacity st. :

**C.1.5 VFD System**

Number Of VFD no. :

Make/Type :

Maximum Continuous Power (Total) Kw :

Output Volts Volts :

**C.1.6 Transformer System**

Quantity no. :

Make/Type :

Continuous Power (Each) Kva :

Output Volts Volts :

Frequency Hz :

Quantity no. :

Make/Type :

Continuous Power (Each) Kva :

Output Volts Volts :

Frequency Hz :

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**IADC EQUIPMENT LIST**

Quantity no. :

Make/Type :

Continuous Power (Each) Kva :

Output Volts Volts :

Frequency Hz :

**C.1.7 Emergency Shutdown**

:

Emergency shutdown switches for the complete power system (AC and DC), located at the following points and port lifeboat station

**C.1.8 Compressed Air Systems**

Air Compressors - Cold Start:

- Quantity no. :

- Make :

- Model :

- Rated capacity ft3/min :

- Working pressure Psi :

- Prime mover (electric/diesel) :

- Continuous power hp :

Air Compressors - Medium Pressure (Rig Air):

- Quantity no. :

- Make :

- Model :

- Rated capacity ft3/min :

- Working pressure psi :

- Prime mover (electric/diesel) :

- Continuous power hp :

Air dryers:

- Quantity no. :

- Make :

- Rated capacity ft3/min :

Air Compressors - Low Pressure (bulk air)

- Quantity no. :

- Make :

- Model :

- Rated capacity ft3/min :

- Working pressure psi :

20

****

**IADC EQUIPMENT LIST**

- Prime mover (electric/diesel) :

- Continuous power hp :

Air Dryers:

- Quantity no. :

- Make/type :

- Rated capacity ft3/min :

**C.1.9 Air Receivers**

Volume (total) Drillfloor air receiver ft3 :

Pressure psi :

Location :

**C.2 EMERGENCY GENERATOR**

**C.2.1 Engine**

Quantity no. :

Make/Type :

Maximum output kW :

- At rotation speed rpm :

Automatic starting yes/no :

Starting methods (air, hydraulic, battery) :

**C.2.2 AC - Generator**

Quantity no. :

Make/Type :

Maximum output ekW :

- At rotation speed rpm :

Output volts :

Capable of back-feeding power to main bus yes/no :

**C.2.3 Emergency Generator supply**

Supply to 1. :

2. :

3. :   
4. :   
5. :

6. :   
7. :

8. :

9. :   
10. :

21

****

**IADC EQUIPMENT LIST**

11. :   
12. :

13. :

14. :   
15. :

16. :

17. :

18. :   
19. :

20. :   
21. :

22. :

**C.2.4 Machinery space ventilation**

Main engine room

Supply fans no. :

Exhaust fans no. :

Mud pump room

Supply fans no. :

Exhaust fans no. :

Emergency generator room

Exhaust fans no. :

**D. DRILLSTRING EQUIPMENT**

**D.1 TUBULARS**

**D.1.1 Kellys**

Quantity no. :

Nominal size OD in. :

Shape type(hexagonal, square or triangular) :

Total/Working Length ft/ft :

Connection type :

25

****

**IADC EQUIPMENT LIST**

**E. WELL CONTROL**

**E.1 DIVERTER BOP / Overshots and Risers system**

:

- Maximum bore - housing in. :

- Min through bore dia in. :

- Working pressure psi :

Packer 10”ID psi :

Packer 15” ID psi :

Packer 22” ID psi :

Packer 17 3/4” ID :

- Overshot spool NOM: 32” EC-6 box up / pin down

:

Overall length 5 feet

- Overshot packer 30” EC-6 box up 30” packer down

Overall length 29.6 feet :

- Overshot packer 24” EC-6 box up 24” packer down

:

Overall length 5.54 feet

- Overshot mandrel 24” with 18-3/4 10M flange down

:

Overall length 9.75 feet

- Handling clamp for 49-1/2” rotary :

- Diverter running tool :

-Diverter test tool :

- Diverter insert handling tool :

- Diverter housing protector :

50

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**IADC EQUIPMENT LIST**

Annular no. :

- Make/type :

- Maximum bore in. :

- Working pressure psi :

Bottom connection :

- Size in. :

- Working pressure psi :

- Gasket type :

Number of diverter outlets no. :

Outlet OD (nominal) in. :

**E.1.1 Diverter Flowlines**

Quantity no. :

Nominal size of flowlines in. :

Running from diverter to :

Valve make/type :

- Quantity no. :

- Size in. :

- Working pressure psi :

- Valve operator (air/hydraulic) :

**E.1.2 Diverter Control Panel**

Primary make/type :

- Location :

Remote make / type :

Location :

**E.2 LOW PRESSURE BLOWOUT PREVENTERS**

All appropriate components H2S rated yes/no :

**E.2.1 Ram Type Preventers**

Quantity no. :

Make/model :

Type (single/double/triple) :

Size in. :

Working pressure psi :

Ram locks yes/no :

Type (manual/hydraulic) :

H2S service yes/no :

Side outlets no. :

- Size in. :

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****

**IADC EQUIPMENT LIST**

- Working pressure psi :

Bottom connection :

Top connection :

Shear ram boosters yes/no :

**E.2.2 Available Rams (Installed and Spare)**

Quantity/type/size no./type/in :

**E.2.3 BOP Ram Configuration (Normal)**

Upper :

Middle upper :

Middle lower :

Lower :

**E.2.4 Annular Preventer**

Quantity no. :

Make/type :

Size in. :

Working pressure psi :

Bottom connection :

Top connection :

**E.2.5 Kill Line Valves**

Quantity no. :

Make/type :

Size in. :

Working pressure psi :

Gasket type :

Hydraulic/manual/non-return :

**E.2.6 Choke Line Valves**

Quantity no. :

Make/type :

Size in. :

Working pressure psi :

Gasket type :

Hydraulic/manual :

**E.3 HIGH PRESSURE BLOWOUT PREVENTERS API & MR - 0175**

All appropriate components H2S rated yes/no :

**E.3.1 Ram Type Preventers**

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****

**IADC EQUIPMENT LIST**

Quantity no. :

Make/model :

Type (single/double/triple) :

Size in. :

Temp ratings API Spec 16A: deg F :

Working pressure psi :

Ram locks yes/no :

Type (manual/hydraulic) :

H2S service yes/no :

Side outlets no. :

- Size in. :

- Working pressure psi :

- Studded yes/no :

- Blind flanges :

Bottom connection :

Top connection :

Shear ram boosters yes/no :

**E.3.2 Available Rams (Installed)**

Quantity/type/size no./type/in :

Quantity/type/size no./type/in :

Quantity/type/size no./type/in :

Quantity/type/size no./type/in :

Quantity/type/size no./type/in :

Quantity/type/size no./type/in :

Quantity/type/size no./type/in :

Quantity/type/size no./type/in :

**E.3.3 BOP Ram Configuration (Normal)**

Upper :

Middle upper :

Middle lower :

Lower :

**E.3.4 Annular Preventer**

Quantity no. :

Make/type :

Temp Rating Deg F deg F :

Size in. :

Element Nitrile temp rating deg F :

Working pressure psi :

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**IADC EQUIPMENT LIST**

Bottom connection :

Top connection :

H2S service yes/no :

Lifting frame yes/no :

**E.3.5 Kill Line Valves**

Quantity no. :

Make/type :

Size in. :

Working pressure psi :

Gasket type :

Hydraulic/manual/non-return :

Quantity no. :

Make/type :

Size in. :

Working pressure psi :

Gasket type :

Hydraulic/manual/non-return :

**E.3.6 Choke Line Valves**

Quantity no. :

Make/type :

Size in. :

Working pressure psi :

Gasket type :

Hydraulic/manual/non-return :

Quantity no. :

Make/type :

Size in. :

Working pressure psi :

Gasket type :

Hydraulic/manual/non-return :

**E.4 OTHER BLOWOUT PREVENTERS**

None

**E.5 BOP CONTROL SYSTEM**

**E.5.1 Accumulator Unit**

Make/model :

Quantity no. :

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**IADC EQUIPMENT LIST**

Location :

Fluid reservoir capacity US gal :

No of bottles installed :

Oil/water mix rate USgpm :

Glycol reservoir capacity US gal :

Total accumulator capacity (w/o precharge) US gal :

System working pressure Psi :

Control manifold model :

Regulator type :

Total useful accumulator volume equals all gal :

preventer opening and closing volumes gal :

yes/no :

- Plus percent additional volume % :

**E.5.2 Accumulator Hydraulic Pumps**

Electric driven:

- Quantity no. :

- Make/model :

- Each driven by motor of power hp :

- Flow rate of each pump US gpm :

- At operating pressure psi :

- Operable off emergency generator yes/no :

Air driven:

- Quantity no. :

- Make/model :

- Flow rate of each pump US gpm :

- At operating pressure psi :

**E.5.3 Primary Control Panel**

Control panel make/model :

:

Location

Panel controls for the following functions

- All annular BOPs yes/no :

- All ram BOPs yes/no :

- Lock for ram BOPs yes/no :

- Diverter System yes/no :

- Kill and choke line valves yes/no :

- Low accumulator pressure warning yes/no :

- Low reservoir level warning yes/no :

- Low rig air pressure warning yes/no :

- System pressure regulator yes/no :

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**IADC EQUIPMENT LIST**

- Pressure regulator for annular yes/no :

- Flowmeter yes/no :

- Quantity of pressure gauges no. :

- Other control functions yes/no :

- Spare control function no. :

**E.5.4 Remote Control Panels**

Make/model :

Location :

Location :

Ability to operate main closing unit valves directly

yes/no :

System routing (direct or thru panel) :

Remote control of system pressure regulator yes/no :

Remote control of annular pressure regulator yes/no :

**E.6 CHOKE MANIFOLD API & MR - 0175**

All appropriate components H2S rated yes/no :

**E.6.1 Choke Manifold (For Instrumentation, see H.3)**

Nominal size in. :

Minimum ID in. :

Maximum working pressure psi :

Quantity of fixed chokes no. :

- Make/model :

- Size (ID) in. :

Quantity of adjustable chokes no. :

- Make/model :

- Size (ID) in. :

Quantity of power chokes no. :

- Make/model :

- Size (ID) in. :

Power choke remote control panel yes/no :

- Make/model :

- Location :

Glycol injection yes/no :

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

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**IADC EQUIPMENT LIST**

Quantity no. :

Make/type :

Temp rating Deg C :

ID in. :

Working pressure psi :

H2S service yes/no :

Length ft :

Connections :

Adaptors 3-1/16” 15K flange - 3” 2202 union yes/no :

**E.8 FLEXIBLE BOP CONTROL HOSES**

Quantity no. :

Make/model :

ID in. :

Working pressure psi :

Fire resistant yes/no :

**E.9 BOP TESTING EQUIPMENT**

**E.9.1 Hydraulic BOP Test Pump**

Make/model :

Type :

Pressure rating psi :

Chart recorder yes/no :

Test hose length ft :

Test hose WP psi :

**E.9.2 BOP Test Stump**

Size in. :

Box thread :

Test mandrel yes/no :

Size in :

**E.10 BOP HANDLING**

**E.10.1 BOP Hoist System**

Make/type :

Quantity of hoists :

Number of lift points on BOP no. :

System safe working load (max BOP wt) Mt :

**E.10.2 Work Platforms**

BOP work platform (adjustable/fixed/none) :

Conductor pipe platform yes/no :

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**IADC EQUIPMENT LIST**

**E.10.3 Conductor Pipe Tensioning and BOP Tensioning Unit**

Make/type :

Tension capacity st :

Number of lift points no. :

Stroke mm :

Size conductor Clamp/bush inch :

Make/type :

Tension capacity st :

Number of lift points no. :

**F. MUD SYSTEM / BULK SYSTEM**

**F.1 HIGH PRESSURE MUD SYSTEM**

System working pressure psi :

System test pressure psi :

**F.1.1 Mud Pumps**

Quantity no. :

Make :

Model :

Type (triplex/duplex) :

Mud pump drive motors/pump no. :

- Motor type :

- Continuous power rating per motor hp :

Fluid end type :

- Maximum working pressure psi :

- Test pressure psi :

Pump stroke counter type :

Supercharging pump type :

- Driven by motor of power hp :

Discharge/suction line ID in./in. :

Mud pump pulsation dampener type :

Reset relief valve :

Working flowrate per pump at 90% of max spm: :

- Liner size in. :

- Pump speed (90% of max) spm :

- Pump pressure psi :

- Working flowrate US gpm :

**F.1.2 Transfer Pumps / Mixing Pumps**

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**IADC EQUIPMENT LIST**

Mixing/Transfer Pumps:

- Quantity no. :

- Make/model :

- Type/Size :

- Impeller size in. :

- Output capacity (each) USgpm :

- RPM :

- Drive motor type :

- Power output hp :

Gel Tank Pumps:

- Quantity no. :

- Make/model :

- Type/Size :

- Impeller size in. :

- Output capacity (each) US gpm :

- RPM :

- Drive motor type :

- Power output hp :

**F.1.3 Mud charging pumps**

Quantity no. :

Make/type :

Type/Size :

Impeller size in. :

Capacity (each) US gpm :

RPM :

Drive motor type :

- Power output hp :

**F.1.4 Standpipe Manifold**

Quantity of standpipes no. :

Make :

Standpipes ID in. :

H-Type standpipe manifold yes/no :

Kill line outlet yes/no :

Fill-up line outlet yes/no :

Bleed-off line outlet yes/no :

Bleed off choke yes/no :

**F.1.5 Rotary Hoses**

Quantity no. :

59

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**IADC EQUIPMENT LIST**

Make/type :

ID in. x ft :

Working pressure psi :

Snubbing lines yes/no :

**F.1.6 Circulating Hoses**

Quantity no. :

Type (armor sheath/flexible steel pipe) :

Length ft :

ID in. :

Working pressure psi :

**F.1.7 High Pressure Flexible Steel Pipe**

Make/type :

Integral connections/fittings (non-threaded) yes/no :

ID in. :

Working pressure psi :

Section length ft :

- Quantity no. :

Section length ft :

- Quantity no. :

Sweep swivels, make/type :

- Nominal size ID in. :

Suitable for H2S services yes/no :

**F.2 LOW PRESSURE MUD SYSTEM**

**F.2.1 Mud Processing Tanks**

Sand trap tank, useable volume bbl :

Degasser tank, useable volume bbl :

- Agitated yes/no :

Desander tank, useable volume bbl :

- Agitated yes/no :

Desilter tank, useable volume bbl :

- Agitated yes/no :

Mud cleaner tank, useable volume bbl :

- Agitated yes/no :

Centrifuge tank, useable volume bbl :

- Agitated yes/no :

Overflow tank, useable volume bbl :

- Agitated yes/no :

Total useable capacity bbls :

60

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**IADC EQUIPMENT LIST**

**F.2.2 Mud Tanks**

Quantity no. :

Total capacity (useable) bbl :

Useable capacity No. 1 bbl :

- Type (active/reserve) :

Height m :

Mud agitator yes/no :

Mud guns yes/no :

Useable capacity No. 2 bbl :

- Type (active/reserve) :

Height m :

Mud agitator yes/no :

Mud guns yes/no :

Useable capacity No. 3 bbl :

- Type (active/reserve) :

Height m :

Mud agitator yes/no :

Mud guns yes/no :

Useable capacity No. 4 bbl :

- Type (active/reserve) :

Height m :

Mud agitator yes/no :

Mud guns yes/no :

Useable capacity No. 5 bbl :

- Type (active/reserve) :

Height ft :

Mud agitator yes/no :

Mud guns yes/no :

Useable capacity No. 6 bbl :

- Type (active/reserve) :

Height ft :

Mud agitator yes/no :

Mud guns yes/no :

Useable capacity No. 7 bbl :

- Type (active/reserve) :

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**IADC EQUIPMENT LIST**

Height ft :

Mud agitator yes/no :

Mud guns yes/no :

Useable capacity No. 8 bbl :

- Type (active/reserve) :

Height ft :

Mud agitator yes/no :

Mud guns yes/no :

Useable capacity No. 9 bbl :

- Type (active/reserve) :

Height ft :

Mud agitator yes/no :

Mud guns yes/no :

**F.2.3 Pill/Slug Tank**

Capacity (useable) bbl :

Mud agitator yes/no :

Mud guns yes/no :

**F.2.4 Trip Tanks/Stripping Tanks**

Capacity (useable) bbl :

Capacity/foot bbl/ft :

Level indicator yes/no :

Electric pump make :

- Model/type :

- Rated capacity gpm :

Facility for casing fill-up Alarm yes/no :

Alarm and strip chart recorder yes/no :

Capacity (useable) bbl :

Capacity/foot bbl/ft :

Level indicator yes/no :

Electric pump make :

- Model/type :

- Rated capacity gpm :

Facility for casing fill-up Alarm yes/no :

Alarm and strip chart recorder yes/no :

**F.2.5 Chemical Mixing Tank**

Capacity (useable) bbl :

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**IADC EQUIPMENT LIST**

Chemical mixer type :

**F.2.6 Shale Shakers**

Shaker:

- Quantity no. :

- Make/model :

- Type :

- Nominal flow rate (total) bbl/min :

Cascading:

- Quantity no. :

- Make/model :

- Type :

- Nominal flow rate (total) gpm :

Dual Box Scalper:

- Quantity no. :

- Make/model :

- Type :

- Nominal flow rate (total) gpm :

Flow Divider:

- Quantity no. :

- Make/model :

- Type :

- Nominal flow rate (total) gpm :

**F.2.7 Desander**

Quantity no. :

Make/model :

Type :

Max. flow rate bbl/min :

Number of cones no. :

- Size in. :

Feed pump make/model :

- Type/size :

- Impeller size in. :

- Capacity gpm :

- Drive motor hp hp :

Is pump dedicated to desander yes/no :

**F.2.8 Desilter** Desilter

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**IADC EQUIPMENT LIST**

Quantity no. :

Make/model :

Type :

Nominal flow rate bbl/min :

Number of cones no. :

- Size in. :

Feed pump make/model :

- Type/size :

- Impeller size in :

- Capacity gpm :

- Drive motor hp hp :

Is pump dedicated to desilter yes/no :

**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 :

Dimensions (height x OD) ft x in. :

Gas discharge line OD in. :

Gas discharge location, primary :

Can discharge be tied into burner system yes/no :

Vacuum breaker yes/no :

Mud seal height ft :

Pressure gauge yes/no :

Calculated gas throughput mmscf :

**F.2.11 Degasser**

Quantity :

Make/type :

Nominal flow rate bbl/min :

Feed pump make/model :

64

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**IADC EQUIPMENT LIST**

- Type/size :

- Impeller size in. :

- Capacity gpm :

- Drive motor hp hp :

- Is pump dedicated to degasser yes/no :

Vacuum pump make type :

**F.2.12 Mud Agitators**

Quantity no. :

MA-25 RG

Driven by motor of power hp :

Located in tanks :

(see F.2.1 & F.2.2 for tank designations)

Quantity no. :

Make/model :

Driven by motor of power hp :

Located in tanks :

(see F.2.1 & F.2.2 for tank designations)

**F.2.13 Mud Centrifuge**

Quantity no. :

Make/model :

Feed pump make/model :

- Type/size :

- Capacity bbl/min :

- Drive motor RPM RPM :

Is feed pump dedicated to centrifuge(s) yes/no :

**F.2.14 Mud Laboratory and Facilities**

Separate room yes/no :

Equipped with:

- Mud balance yes/no :

- Marsh funnel yes/no :

- Filtration kit yes/no :

- Sand content kit yes/no :

Air conditioning yes/no :

Positive pressure yes/no :

**BULK SYSTEM**

**F.3.1 Barite/Bentonite Silos**

Quantity no. :

65

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**IADC EQUIPMENT LIST**

Capacity of each silo ft3 :

Locations :

Type weight loadcell :

- Manufacturer :

Pressure rating psi :

Relief valve (s) installed yes/no :

**F.3.2 Cement Silos**

Quantity no. :

Capacity of each silo ft3 :

Locations :

Type weight loadcell :

- Manufacturer :

Pressure rating psi :

Relief valve(s) installed yes/no :

Separate mud/cement loading facilities yes/no :

Cement discharge independent from barite/bentonite

yes/no :

**F.3.3 Surge Tank for Barite/Bentonite**

Quantity no. :

Capacity of each tank ft3 :

Type weight loadcell :

- Manufacturer :

Pressure rating psi :

Relief valve(s) installed yes/no :

**F.3.4 Mud Hopper**

Quantity no. :

Make/model :

Feed pump make/model :

- Type/size :

- Capacity bbl/min :

- Drive motor hp hp :

Is feed pump dedicated to mud hopper(s) yes/no :

**F.3.5 Shear Jet**

Quantity no. :

Make/model :

Feed pump make/model :

Type/size :

Capacity bbl/min :

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**IADC EQUIPMENT LIST**

**F.3.6 Surge Tank for Cement**

Quantity no. :

Capacity of each tank ft3 :

Type weight loadcell :

- Manufacturer :

Pressure rating psi :

Relief valve(s) installed yes/no :

**F.3.7 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 :

Air reduced from main air supply through

pressure regulators yes/no :

Separate volume tank and drier yes/no :

**F.3.8 Super sack hopper**

Quantity no. :

Make/model :

Feed pump make/model :

- Type/size :

- Capacity bbl/min :

- Drive motor hp hp :

Is feed pump dedicated to mud hopper(s) yes/no :

**F.3.9 Dust collector**

Quantity no. :

Make/model :

**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.

For casing OD, weight, quantity in./lbs/ft/no.

**G.1.3 Clamp-On Casing Thread Protectors**

For casing OD, quantity in./no.

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**IADC EQUIPMENT LIST**

**G.2 CEMENTING EQUIPMENT**

**G.2.1 Cement Unit**

Location :

Utility supplies 1.

2.   
3.

4.

5.

6

7

8

Owner :

Free placement basis yes/no :

Make/type :

No. of triplex pumps no. :

Maximum working pressure psi :

Maximum flowrate (total) bbl/min :

Unit powered by (electric/diesel) :

Recirculating mixing system yes/no :

- Capacity bbl :

- Motor power hp :

Liquid additive system yes/no :

Pre-mix/batch tank USgpm :

- Quantity no. :

- Capacity (total) bbl :

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**IADC EQUIPMENT LIST**

Pressure recorder yes/no :

Densitometer recording device yes/no :

**G.2.2 Cementing Manifold**

Discharge manifold working pressure psi :

Cement pump discharge lines min ID in. :

Cement pump discharge lines working pressure psi :

Manifold safety pressure relief valve yes/no :

**G.2.3 Cementing Standpipe**

Quantity no. :

Working Pressure psi :

ID in. :

Connection to choke manifold yes/no :

Connection to standpipe manifold yes/no :

**G.2.4 Cementing Kelly**

Quantity no.

Nominal size OD in.

Total length ft

Working length ft

Connection type

Cement head yes/no

**G.2.5** **Cementing Tubing**

Size in. :

Length (total) ft :

**G.2.6 Filtration unit**

Location

Utility supplies

**H.** **Ftemp rating**

**/COMMUNICATION**

**H.1 DRILLING INSTRUMENTATION AT DRILLER’S POSITION**

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

**H.1.1** **Weight Indicator**

Make/type :

Sensor type :

**H.1.2** **Standpipe Pressure Gauges**

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**IADC EQUIPMENT LIST**

Quantity no. :

Make/type :

Max. pressure reading psi :

**H.1.3 Choke Manifold Pressure Gauges**

Quantity no. :

Make/type :

Max. pressure reading psi :

**H.1.4** **Rotary Instrumentation**

**H.1.4.1 Tachometer**

Make/type :

Maximum RPM rpm :

**H.1.4.2 Torque Indicator**

Make/type :

Maximum torque ft/lbs :

**H.1.5 Top Drive Instrumentation**

**H.1.5.1 Tachometer**

Make/type :

Maximum RPM rpm :

**H.1.5.2 Torque Indicator**

Make/type :

Maximum torque ft/lbs :

**H.1.6 Pump Stoke Counters**

Quantity no. :

Make/type :

Stoke indicator and cumulative yes/no :

stroke counter for each pump yes/no :

**H.1.7 Tong Torque Indicator**

Make/type :

Maximum torque ft/lbs :

**H.1.8 Pit Volume Totalizer**

Make/model: :

Floats in active mud tanks yes/no :

- Quantity per tank: no. :

Floats in reserve mud tanks yes/no :

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**IADC EQUIPMENT LIST**

- Quantity per tank no. :

Floats in mud processing tank yes/no :

- Quantity per tank: no. :

Loss/gain indicator yes/no :

- Audio Alarm yes/no :

- Visual Alarm yes/no :

**H.1.9 Mud Flow Indicator**

Make/model :

High/low Alarm: :

- Audio Alarm yes/no :

- Visual Alarm yes/no :

Sensor location: :

**H.1.10 Trip Tank Indicator**

Make/model :

Chart recorder yes/no :

Alarm yes/no :

**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 :

**H.1.14 Drilling Control Data Acquisition (DCDA)**

Make/type :

Quantity no. :

Control Console yes/no :

Touch Screen yes/no :

Weight Indicator System yes/no :

Discreet Control Devices yes/no :

Joystick activated Drawworks yes/no :

Joystick activated Cathead yes/no :

Emergency Stop/Park Brake yes/no :

Block Control Range Override yes/no :

Hole Fill Pump Start/Stop yes/no :

Trip Tank Pump Start/Stop yes/no :

Drill Floor Emergency Shutdown

UPS (None/Single/Dual) :

Multi Tool Control (MTC) Cabinet yes/no :

Screens

74

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**IADC EQUIPMENT LIST**

Drilling Signal distribution System:

Make/type :

Electronic gauges for primary drilling

instrumentation yes/no

:

Pit Volume Totaliser yes/no :

Electronic Drilling Recorder yes/no :

WITS interface yes/no :

Software Licences yes/no :

FOR DATA ACQUISITION NETWORK PLEASE REF TO:

N.1.3 ACQUISITION NETWORK

Drilling Information management system:

Make/type :

Realtime yes/no :

Printed Report Types yes/no :

**H.2 DRILLING PARAMETER RECORDER**

Quantity no. :

Make/type :

Location - 1 :

- Type (display/recorder/both) :

Location - 2 :

- Type (display/recorder/both) :

Location - 3 :

- Type (display/recorder/both) :

Number of parameters recorded no. :

:

,

Parameter recorded

,

75

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**IADC EQUIPMENT LIST**

**H.3 INSTRUMENTATION AT CHOKE MANIFOLD**

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

Quantity no. :

Make/type :

Pressure range (max.) psi :

Visible from choke operation position yes/no :

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

Quantity no. :

Make/type :

Pressure range psi/psi :

**H.4 INSTRUMENTATION AT STANDPIPE**

**H.4.1 Standpipe Pressure Gauge**

Quantity no. :

Make/type :

Pressure range psi/psi :

Visible from driller’s position yes/no :

Visible from choke operating position yes/no :

**H.5 DEVIATION EQUIPMENT**

**H.5.1 Deviation Recorder**

Quantity no. :

Make/type :

Deviation range degree/degree :

Sinker weights/ retrieval tool yes/no :

**H.5.2 Deviation Instrument**

Make/type :

Recording/range :

Go-devil diameter :

Recovery equipment :

**H.5.3 Slickline Unit (see B.2.4)** :

**H.6 RIG COMMUNICATION SYSTEMS**

**H.6.1 Rig Telephone System**

No. of stations no. :

:

Make/type

Explosion proof :

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**IADC EQUIPMENT LIST**

**H.6.2 Public Address System**

No. of stations no. :

Make/type :

Explosion proof yes/no :

**H.6.3 Drill Floor Talkback System**

No. of stations no. :

Location :

Make/type :

Explosion proof yes/no :

**H6.4 Hand-held VHF Radios**

Quantity no. :

Location :

Make/Model :

Quantity intrinsically safe no. :

**H.6.5 Crane Communication System**

CCTV

Quantity no. :

Make/type :

Explosion proof yes/no :

**H.6.6 Computer Network LAN**

Make/type

:

Fiber optics Yes/no :

Outlet locations

:,

**H.7 ENVIRONMENTAL INSTRUMENTATION**

**H.7.1 Temperature Indicators**

Air temperature (make/model) :

Seawater temperature (make/model) :

**H.7.2 Barometric Pressure Indicator**

Make/model :

**H.7.3 Humidity Sensing Indicator**

Make/model :

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**IADC EQUIPMENT LIST**

**H.7.4 Wind Speed/Direction Meter**

Make/model :

**H.7.5 Ceilometer Sensor**

Make/model :

**H.7.6 Visibility Sensor**

Make/model :

**H.7.7 Weather Facsimile**

Make/model :

Located at :

**H.8 NAVIGATION INSTRUMENTATION**

**H.8.1 Gyro Compass**

Make/model :

Located at :

**H.8.2 Depth Sounder**

Make/model :

Located at :

Recorder yes/no :

**H.9 EXTERNAL COMMUNICATIONS EQUIPMENT**

**H.9.1 Marine VHF Radio**

Quantity no. :

Make/model :

Power watts :

Channels :

Location :

**H.9.2 SSB Transceiver**

Location(s) :

Quantity no. :

Make/model :

Power watts :

Facsimile capable (see also H.9.9) yes/no :

Telex capable (see also H.9.10) yes/no :

**H.9.3 EPIRB**

Quantity no. :

Make/model :

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**IADC EQUIPMENT LIST**

Location(s) :

**H.9.4 Aircraft Radio Beacon Transmitter**

Quantity no. :

Make/model :

Power watts :

**H.9.5 Aeronautical VHF Transceiver**

Quantity no. :

Make/model :

Power: watts :

Frequency range (low/high): mhz/mhz :

(Synthesized/crystal):

Location(s): :

**H.9.6 Watch Receiver**

Quantity: no. :

Make/model: :

Frequency: khz :

**H.9.7 Satellite Communication System**

Make/model

:

Type :

Facsimile capable (see also H.9.9) yes/no :

Telex capable (see also H.9.10) yes/no :

Location(s) :

**H.9.8 Inmarsat**

Number of phone lines

no. :

**I. PRODUCTION TEST EQUIPMENT**

**I.1 BURNERBOOMTOWERS**

Make/type

**I.2 BURNER BOOMS**

Make/type

no.

Quantity

Length ft

Horizontal yes/no

Maximum wind speed knots

79

****

**IADC EQUIPMENT LIST**

Walkway and handrails yes/no

Burner platform size yes/no

**I.3 PIPING ON BURNER BOOMS**

**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

Pump source

80

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**IADC EQUIPMENT LIST**

**I.5 FIXED PIPING FOR WELL TESTING**

**I.5.1 Drill Floor to Separator Area**

Type (threaded, welded, both)

Quantity no.

Size ID in.

Working pressure psi

Connection type on drill floor type

Connection type at separator type

Number of valves/lines no.

- Size of valves in.

H2S yes/no

**I.5.2 Separator Area to Burner Booms**

Service (oil/gas)

Type (threaded, welded, both)

Quantity no.

Size ID in.

Working pressure psi

Connection at separator type

Connection at boom type

Number of valves/lines no.

- Size of valves in.

H2S yes/no

Valves installed near separator area for switching gas to either burner

yes/no

Service (oil/gas)

Type (threaded, welded, both)

Quantity no.

Size ID in.

Working pressure psi

Connection at separator type

Connection at boom type

Number of valves/lines no.

- Size of valves in.

H2S yes/no

Valves installed near separator area for switching gas to either burner

yes/no

**I.5.3 Water Lines to Burner Booms**

Type (threaded/welded/both)

Quantity no.

81

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**IADC EQUIPMENT LIST**

Size ID in.

Working pressure psi

Number of valves required no.

- Size of valves in.

Pump source

Rated line capacity at 300 psi bbl/hr

**I.5.4 Air System To Burner Booms**

Type (threaded/welded/both)

Quantity no.

Size ID in.

Working pressure psi

Non-return valves fitted yes/no

Air Source

**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)

Quantity no.

Size ID in.

Working pressure psi

Connection at separator area type

**I.6 AUXILIARY POWER AVAILABILITY**

**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

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**IADC EQUIPMENT LIST**

**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. :

- No. of combination office/staterooms in above no. :

Complete with desk, filing cabinets and other necessary furniture

yes/no :

Quantity with unrestricted view to drill floor no. :

**K.1.2 Contractor Representative's Offices**

Quantity no. :

Quantity with unrestricted view to drill floor no. :

**K.1.3 Control Room**

Quantity no. :

**K.1.4 Radio Room**

Quantity no. :

**K.1.5 Helicopter Ready Room**

Quantity no. :

**K.1.6 Hospital Room**

Number of beds/bunks no. :

Dangerous drugs locker yes/no :

**K.2 LIVING QUARTERS**

**K.2.1 Accommodations**

Total beds: no. :

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

- Number of rooms no. :

- Toilets (private/shared/communal) no. :

- Showers (private/shared/communal) no. :

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**IADC EQUIPMENT LIST**

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

- Number of rooms no. :

- Toilets (private/shared/communal) :

- Showers (private/shared/communal) :

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

- Number of rooms no. :

- Toilets (private/shared/communal) :

- Showers (private/shared/communal) :

**K.2.2 Galley**

Quantity no. :

**K.2.3 Mess Seating Capacity**

Main mess no. :

Aux. mess no. :

**K.2.4 Meeting Rooms**

Quantity no. :

**K.2.5 Recreation Rooms**

Quantity: no. :

Recreation facilities:

- TV yes/no :

- VCR yes/no :

- Pool Table yes/no :

- Ping Pong Table yes/no :

- Computer yes/no :

- Workout/Weight Room yes/no :

- Other yes/no :

**K.2.6 Other Rooms**

Change Rooms yes/no :

Prayer Rooms yes/no :

Cinema yes/no :

Other (offices) yes/no :

**L. SAFETY EQUIPMENT**

**L.1 GENERAL SAFETY EQUIPMENT**

**L.1.1 General Personnel Protective Gear**

Safety Glasses

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**IADC EQUIPMENT LIST**

- (Contractor/everyone/not supplied) :

Safety Hats

- (Contractor/everyone/not supplied) :

Safety boots

- (Contractor/everyone/not supplied) :

Safety clothing

- (Contractor/everyone/not supplied) :

Ear protection

- (Contractor/everyone/not supplied) :

Rubber gloves

- (Contractor/everyone/not supplied) :

Rubber aprons

- (Contractor/everyone/not supplied) :

Rubber gloves - elbow length

- (Contractor/everyone/not supplied) :

Fullface visors

- (Contractor/everyone/not supplied) :

Eye shields (for grinders)

- (Contractor/everyone/not supplied) :

Dust masks

- (Contractor/everyone/not supplied) :

Explosion proof hand torches

- (Contractor/everyone/not supplied) :

Safety belts c/w lines

- (Contractor/everyone/not supplied) :

**L.1.2 Decontamination Stations**

**L.1.2.1 EyeWash Stations**

Quantity - fixed no. :

Make/model :

Location(s) :

**L.1.2.2 Safety Showers**

Quantity no. :

Make/model :

Location(s) :

**L.1.3** **Derrick Safety Equipment**

Derrick escape chute (rem chute) no. :

- Make/type :

Geronimo line: yes/no :

Derrick Safety Belts no. :

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**IADC EQUIPMENT LIST**

- Make/type :

**L.1.4 Derrick Climbing Assistant**

Make/type :

**L.1.5 Fresh Air Blowers (Bug Blowers)**

Quantity no. :

Make/type :

Located at :

**L.2 GAS/FIRE/SMOKE DETECTION**

**L.2.1 H2S Monitoring System**

Make/type :

Sampling points at:

- Bellnipple yes/no :

- Drill floor yes/no :

- Shale shaker yes/no :

- Mud Pit yes/no :

- Ventilation system into living quarters yes/no :

- Other

:

Alarms at: :

- Drillers console (audible/visual/both) :

- Engine Room (audible/visual/both) :

- Mud pump room (audible/visual/both) :

- Living quarters each level (audible/visual/both)

:

- Central area each structural level(audible/visual/both)

:

- Other :

- Tied to general alarm yes/no :

Central control panel yes/no :

- Located at :

Local alarm (audible/visual/both) :

**L.2.2 Combustible Gas Monitoring System**

Make/type :

Sampling points at:

- Bell nipple yes/no :

- Drill floor yes/no :

- Shale shakers yes/no :

- Mud Pit yes/no :

- Ventilation system into living quarters yes/no :

- Other :

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**IADC EQUIPMENT LIST**

Alarms at:

- Drillers console (audible/visual/both) :

- Engine room (audible/visual/both) :

- Mud room (audible/visual/both) :

- Living quarters each level (audible/visual/both)

:

- Central area each structural level (audible/visual/both)

:

- Other :

- Tied to general alarm yes/no :

Central Control Panel yes/no :

- Located at :

Local Alarm (audible/visual/both) :

**L.2.3** **Multi Gas Detectors (Portable)**

Quantity no. :

Make/type :

**L.2.4 Fire/Smoke Detectors in Accommodation**

Make/type :

Fire detection yes/no :

Heat detection yes/no :

Flame detection yes/no :

Central control panel yes/no :

- Location :

Alarms: no. :

Pull boxes no. :

Mud room (audible/visual/both): :

Living quarters each level (audible/visual/both) :

Central area structural level: (audible/visual/both):

:

Other:

Tied to general alarm: yes/no :

Central control panel:

Located at: :

Local alarm (audible/visual/both): :

Flame detection yes/no :

**L.3 FIRE FIGHTING EQUIPMENT**

**L.3.1 Fire Pumps**

Quantity no. :

Make/model :

Type :

87

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**IADC EQUIPMENT LIST**

Output (each) gpm :

Location :

All offtake points supplied by all pumps yes/no :

**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 :

Quantity of hydrants no. :

Hose connections/hydrant no. :

Hose max diameter in. :

Length ft :

**L.3.3 Portable Fire Extinguishers**

Quantity (total) no. :

Type 1 - CO2 no./kg :

no./kg :

Type 2 - Dry chemical no. :

no./kg :

no./kg :

no./kg :

Type 3 – Dry powder no. :

no./kg :

no./kg :

no./kg :

no./kg :

no./kg :

Type 4 - Foam no. :

no./kg :

no./kg :

**L.3.4 Fire Blankets**

Quantity no. :

Location(s) :

**L.3.5 Fixed Foam System**

Make/type :

Quantity of foam concentrated stored gal :

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**IADC EQUIPMENT LIST**

Foam type :

Application rate USgpm :

Foam nozzles no. :

- Located at :

Automatically injected into fixed fire water system

yes/no :

**L.3.6 Helideck Foam System**

Make/type :

Quantity of monitors no. :

Quantity of foam concentrate stored gal :

Foam type :

Application rate USgpm :

**L.3.7 Fixed Fire Extinguishing System**

Protected spaces:

Engine room, type (Halon/CO2/other) :

- Remote manual release located at

Paint locker, type (Halon/CO2/other) :

- Remote manual release located at :

Emergency generator (Halon/CO2/other) :

- Remote manual release located at :

Electrical room, type (Halon/CO2/other) :

- Remote manual release located at :

Other (specify location and type) :

- Remote manual release located at :

Alarms (audio, visual, both) :

Automatic shutdown of ventilation fans in protected spaces

yes/no :

**L.3.8 Manual Water Deluge System**

Protected spaces

:

Water supplied from fire main line yes/no :

**L.3.9 Water Sprinkler System in Accommodation**

Automatic activation yes/no :

Working pressure psi :

Tank capacity gal :

Salt water backup yes/no :

Type (wet pipe/dry pipe) :

**L.4 BREATHING APPARATUS**

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**IADC EQUIPMENT LIST**

**L.4.1 General Sets**

Quantity no. :

Make :

Type (demand/positive pressure) :

Cascade system quick connects yes/no :

Cylinder duration min :

:

Located at qty/loc

**L.4.2 Escape Sets**

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**

Quantity no. :

Make/type :

Manifold location/outlets at location :

**L.4.4 Breathing Air Recharge Compressor**

Quantity no. :

Make/type :

Compressed air storage capacity ft3 :

- Working pressure psi :

Located at :

**L.4.5 Compressed Air Breathing Apparatus Trolley Unit**

Make :

Type (demand/positive pressure) :

Air line length ft :

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 :

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**IADC EQUIPMENT LIST**

**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. :

**L.5.2 Burn Kits**

Quantity no. :

**L.5.3 Resuscitators**

Quantity no. :

Charged (spare) oxygen cylinders no. :

Defibrillator Automatic no. :

**L.5.4 Stretchers**

Quantity no. :

Type

:

Located at

:

**L.6 HELIDECK RESCUE EQUIPMENT**

Aircraft axe no :

Large firemans rescue axe no :

Crowbar no :

Heavy duty hacksaw no :

- Spare blades no :

Grapnel hook no :

- Length of wire rope attached ft :

Quick release knife no :

Bolt croppers no :

Fireman's outfit no :

CO2 lance no :

Other no :

**L.7 EMERGENCY WARNING ALARMS**

Approved system to give warning of

different emergencies yes/no :

Activated from drill floor yes/no :

**L.8 SURVIVAL EQUIPMENT**

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**IADC EQUIPMENT LIST**

**L.8.1 Lifeboats**

Make/type :

Quantity no. :

Capacity person/craft :

Locations (fwd/aft/port/stbd) :

Fire protection :

Radio/SART Water : -

spray Compresed air : -

system Food rations : -

Pyrotechnics : -

**L.8.2 Liferafts**

Make/type :

Quantity no. :

Capacity persons/craft :

Davit launched yes/no :

Locations (fwd/aft/port/stbd) :

**L.8.3 Fast Rescue Boat**

Make/type :

Engine power hp :

**L.8.4 Personal Floatation Devices**

Make/type :

Quantity no. :

**L.8.5 Survival Suits**

Make/type :

Quantity no. :

**L.8.6 Life Ring Buoys**

Make/type :

Quantity total no. :

- With lights no. :

- With smoke no. :

- with EPIRB no. :

**L.8.7 Work Vests**

Quantity no. :

**L.8.8 Escape Ladder / Nets**

Make/type :

Quantity no. :

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**IADC EQUIPMENT LIST**

**M. POLLUTION PREVENTION EQUIPMENT**

**M.1 SEWAGE TREATMENT**

Make/model :

System type :

73/78 Annex IV

Grease trap yes/no :

Make/model :

**M.2 GARBAGE COMPACTION**

Make/model :

System type :

Capacity :

**M.3 GARBAGE DISPOSAL/GRINDER**

Make/model :

System type :

**M.4 INCINERATOR**

Make/model :

System/type :

**M.5 OILY WATER SEPARATOR**

Quantity no. :

Make/model :

System type :

MEPC.107(49) & MARPOL 73/78

Nominal throughput gpm :

**M.6 Drill Floor Drainage** :

**ADDITIONAL EQUIPMENT**

**DISTRIBUTION CONTROL SYSTEM :**

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**IADC EQUIPMENT LIST**

**RAW WATER ANTI-FOULING SYSTEM :**

**UPS SYSTEM :**

**M. POLLUTION PREVENTION EQUIPMENT**

**M.1. SEWAGE TREATMENT**

Make/model

:

System type :

**M.2 GARBAGE COMPACTION**

Make/model

:

System type :

**M.3 GARBAGE DISPOSAL/GRINDER**

Make/model

:

System type :

**M.4 INCINERATOR**

Make/model

:

System type :

**M.5 OILY WATER SEPARATOR**

Quantity no.

:

Make/model :

System type :

Nominal throughput gpm :

**N. DRILLING DATA EQUIPMENT**

**N.1. COMPUTERS (HARDWARE & SOFWARE)**

**N.1.1 Server System**

Make / System

: NOV Server A & B / Cyberbase System

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**IADC EQUIPMENT LIST**

CPU :

Monitor :

Harddrive

:

Optical Storage :

Backup Facility :

Operating System

:

Software System :

Misc.

N.1.2 Peripherals Ethernet link

(ii) Fix SCADA, Microsoft SQL Server 2000)

:

CPU Yes :

Monitor Yes :

Harddrive Yes :

Optical Storage Yes :

Backup Facility N/A :

Operating System Yes

:

Software System Yes

:

Misc.

(iii) **Make / System**

:

CPU Yes :

Monitor No :

Harddrive Yes :

Optical Storage Yes :

Backup Facility N/A :

Operating System Yes :

Software System Yes :

**N.1.2 Workstations**

Make / System

:

Monitor :

Software System :

**N.1.3 ACQUISITION NETWORK**

Drill flow acquisition panel with firmware

:

1 – TBA interface :

2 – RDA interfaces :

Mud area acquisition panel with firmware: :

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**IADC EQUIPMENT LIST**

2 – RDA interfaces :

Mud logging unit acquisition box; :

1 – RDA for 8 analog channels :

SENSORS:

1 - crown block encoder sensor

:

1 - motion compensator encoder sensor :

1 - slip joint encoder sensor :

1 - kelly in/out detector :

1 - hook load :

1 - rotary in/out :

1 - rotary gear box h/l :

1 - rotary RPM. :

1 - top drive RPM :

1 - rotary torque :

1 - top drive torque :

1 - stand pipe pressure :

1 - choke line pressure :

1 - cementing line pressure :

1 - cementing line pump strokes counter :

1 - mud pump 1-SPM :

1 - mud pump 2-SPM :

1 - trip tank level :

1 - active mud tank level :

1 - active reserve mud tank level :

1 - reserve mud tank level :

1 - treatment mud tank level :

1 - desilter tank level :

1 - desander tank level :

1 - slug tank level :

1 - prehydrate tank level :

1 - sand tank status :

1 - sand tank No. 2 level :

1 - deck tank No. 1 level :

1 - deck tank No. 2 level :

1 - transfer mix-pump No. 1 On/Off. :

1 - transfer mix-pump No. 2 On/Off. :

**SYSTEM DESCRIPTION**

Real time data monitoring and display

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5.1. Real time data display for the driller, OIM and COMPANY supervisor in color log format by time or depth.

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**IADC EQUIPMENT LIST**

5.2. Data monitoring at all times with separate driller screens for 9 distinct activities : drilling, POOH, RIH, circulate, running casing, etc.

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5.3. Exact position of the bit at all times while drilling & tripping plus the exact depth of the casing shoe while running casing.

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