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**INTERNATIONAL ASSOCIATION OF DRILLING CONTRACTORS**

**STANDARD FORMAT EQUIPMENT LIST**

**LAND DRILLING UNITS (LAND RIGS)**

**iNSTRUCTIONS:** tHE STANDARD FORMAT EQUIPMENT LIST HAS BEEN DEVELOPED TO PROVIDE A COMPREHENSIVE SUMMARY OF ALL RELEVANT ITEMS OF EQUIPMENT TO STREAMLINE THE TENDER PROCESS FOR BOTH CONTRACTOR AND oPERATOR. iN ORDER TO MAINTAIN EFFIECIENCY, USERS ARE ADVISED TO MAINTAIN A PRECISE ORDER OF THE FORMAT AD TO REQUEST/PROVIDE ANY ADDITIONAL INFORMATION ON SPECIFIC EQUIPMENT AT SECTION n. or an appendum WHICH MAY REFER TO AN OTHER APPROPRIATE SECTION NUMBER

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## A Contractor Land Rig Summary

| Item | DESCRIPTION | age | CERTIFICATION |
| --- | --- | --- | --- |
| YES / NO | EXPIRY DATE |
| Rig Details |
| Rig Number:  |  |  |
| Manufacturer:  |  |  |
| Year Built: |  |  |
| Nominal vertical depth rating: |  |  |
| Unit Shape / Design: |  |  |
| Location: |  |  |
| Availability: |  |  |
| Mast:  |
| Type:  |  |  |
| Height (m) :  |  |  |
| Gross Nominal Capacity (lbs):  |  |  |
| API Static Hook Load Capacity (lbs): |  |  |
| Drawworks:  |
| Type: |  |  |
| Drive:  |  |  |
| Power Rating (HP):  |  |  |
| Max. designed hoisting Capacity: |  |  |
| Drilling Line:  |
| Wire type:  |  |  |
| Wire diameter (inch):  |  |  |
| Nominal Breaking Strength (lbs): |  |  |
| Auxiliary Brake:  |
| Type:  |  |  |
| Number of Brake Discs: |  |  |
| Brake Disc Cooling: |  |  |
| Brake Disc Diameter: |  |  |
| Brake Disc Thickness: |  |  |
| Substructure / Work Floor:  |
| Height (m):  |  |  |
| Clear height below rotary beams / work floor (m):  |  |  |
| Setback load (lbs):  |  |  |
| Rotary Capacity: |  |  |
| Max. Combined load (lbs): |  |  |
| Rotary Table:  |
| Top Drive: |
| Hoisting Equipment:  |
| Crown Block:  |
| Type:  |  |  |
| Capacity (lbs):  |  |
| Travelling Block:  |
| Type:  |  |  |
| Capacity (lbs):  |  |
| Hook (Integrated into Travelling Block):  |
| Type:  |  |  |
| Capacity (lbs):  |  |
| Power Swivel:  |
| Type:  |  |  |
| Capacity (lbs):  |  |
| Deadline Anchor: |
| Type: |  |  |
| Capacity: |  |
| Rig SITE Power:  |
| Number of Engines:  |  |  |
| Number of Generators:  |  |  |
| Continuous generator power (HP):  |  |  |
| VFD system: |  |  |
| Camp Power |
| Number of Engines: |  |  |
| Number of Generators: |  |  |
| Continuous Generator Power: |  |  |
| Mud Pumps:  |
| Type:  |  |  |
| Number of pumps:  |  |  |
| Power Rating (HP):  |  |  |
| Max. Combined pump output (gal/min.):  |  |  |
| Max. Pressure at max. flow rate (psi): |  |  |
| Max. pump pressure (psi): |  |  |
| Mud System:  |
| Active tank capacity (bbl.):  |  |  |
| Reserve tank capacity (bbl.):  |  |  |
| Water/brine tank capacity (bbl.): |  |  |
| Drill String:  |
| Drill Pipe :  |  |  |
| Size (inch):  |  |  |
| Length (m):  |  |  |
| Weight (lb/ft.; kg/m):  |  |  |
| Grade:  |  |  |
| Connection:  |  |  |
| Tool joint OD:  |  |  |
| Tool joint ID:  |  |  |
| Drill Collars:  |
| Size (inch):  |  |  |
| Spiral or Slick:  |  |  |
| Length(m):  |  |  |
| Weight (lb/ft.; kg/m): |  |  |
| BRS:  |  |  |
| Connection:  |  |  |
| ID:  |  |  |
| Qty: |  |  |
| Blow Out Preventers:  |
| Annular preventers:  |
| Make :  |  |  |
| Size (inch):  |  |  |
| Pressure rating :  |  |  |
| Ram type preventers:  |
| Make :  |  |  |
| Size (inch):  |  |  |
| Pressure rating :  |  |  |
| Double ram type preventer Yes or No:  |  |  |
| Shear/Blind Rams Yes or No: |  |  |
| Accumulator Unit:  |
| Total bottle capacity (gal):  |  |  |
| Total usable fluid (gal): |  |  |
| Choke Manifold:  |
| Make:  |  |  |
| Size (inch):  |  |  |
| Pressure rating : |  |  |

##

## B General Rig Requirements / Specifications

### B.1 Mast & Substructure

| ITEM | CONTRACTOR SPECIFICATIONS |
| --- | --- |
| B.1.1 Mast |
| Make/type: |  |
| Height (m):  |  |
| Static hook load (lbs):  |  |
| Max. hook load with 6 lines strung (lbs): |  |
| B.1.2 Racking Platform  |
| Make/type:  |  |
| Racking platform capacity of drill pipe: Size/No.  |  |
| Racking platform capacity of drill collar: Size/No.  |  |
| B.1.3 Substructure / Work Floor |
| Make/type:  |  |
| Height (m):  |  |
| Width (m):  |  |
| Setback capacity (lbs):  |  |
| Rotary capacity (lbs):  |  |
| Clear height below rotary table beams / Work floor (m):  |  |
| Substructure footprint (m x m):  |  |
| Catwalk (m):  |  |
| B.1.4 Rig Floor Winches  |
| Make:  |  |
| Quantity:  |  |
| Type:  |  |
| Capacity & S.W.L. (lbs):  |  |
| Wire diameter (mm):  |  |
| Automatic brakes:  |  |
| Automatic spooling:  |  |
| B.1.5 Monkey Board Work Winch  |
| Make:  |  |
| Quantity:  |  |
| Type:  |  |
| Capacity & S.W.L. (lbs):  |  |
| Wire diameter (mm):  |  |
| Automatic brakes:  |  |
| Automatic spooling:  |  |
| B1.6 Monkey Board Work Winch |
| Make:  |  |
| Quantity:  |  |
| Type:  |  |
| Capacity & S.W.L. (lbs):  |  |
| Wire diameter (mm):  |  |
| Automatic brakes:  |  |
| Automatic spooling:  |  |
| B1.7 Utility Winch (I.E. Catwalk, Sub-Base Winch) |
| Make:  |  |
| Quantity:  |  |
| Type:  |  |
| Capacity & S.W.L. (lbs):  |  |
| Wire diameter (mm):  |  |
| Automatic brakes:  |  |
| Automatic spooling:  |  |
| B1.8 Catwalk / Pipehandler |
| Make:  |  |
| Type:  |  |
| Capacity & S.W.L. (lbs):  |  |
| Integral Pipe Racks: |  |
| Standalone Pipe racks: |  |

###

### B.2 Drawworks & Associated Equipment

| Item | Contractor Specifications |
| --- | --- |
| B.2.1 Drawworks |
| Make/type:  |  |
| Drum type:  |  |
| Spinning cathead type:  |  |
| Breakout cathead type:  |  |
| Travelling Blocks – Crown block anti-collision safety device type/model  |  |
| Travelling Blocks - Drill Floor anti-collision safety device type/model  |  |
| Rated capacity (kW/HP):  |  |
| Input power continuous (kW/HP):  |  |
| Brake type:  |  |
| Maximum Safe Hook load 6 lines (lbs):  |  |
| Maximum Safe Hook load 4 lines (lbs):  |  |
| B.2.2 Drawworks Power  |
| Number of electric motors:  |  |
| Engine make:  |  |
| Engine model: |  |
| Maximum input power continuous (kW/HP):  |  |
| B.2.3 Auxiliary Brake  |
| Make/Type:  |  |
| Model:  |  |

### B.3 Hoisting Equipment

| Item | Contractor Specifications  |
| --- | --- |
| B.3.1 Crown Block  |
| Make/type:  |  |
| Rated capacity (lbs):  |  |
| No. of sheaves:  |  |
| B.3.2 Travelling Block  |
| Make/type:  |  |
| Rated capacity (lbs):  |  |
| No. of sheaves:  |  |
| B.3.3 Hook (integrated into travelling block) |
| Make/type:  |  |
| Rated capacity (lbs):  |  |
| B.3.4 Power Swivel  |
| Make/type:  |  |
| API Rated bearing capacity (lbs):  |  |
| Comparative dead load capacity(lbs):  |  |
| Test/working pressure (psi): |  |
| B.3.4 King Swivel  |
| Make/type:  |  |
| API Rated bearing capacity (lbs):  |  |
| Comparative dead load capacity(lbs):  |  |
| Test/working pressure (psi): |  |
| B.3.6 Drilling Line  |
| Size (mm)/type:  |  |
| Breaking strength (lbs):  |  |
| Length (m):  |  |
| B.3.7 Deadline Anchor |
| Make/type:  |  |
| Load rating (lbs):  |  |
| Weight sensor type:  |  |

### B.4 Rotary System

| Item | Contractor Specifications  |
| --- | --- |
| B.4.1 Rotary Table  |
| Make/Model: |  |
| Size: |  |
| Torque capacity (ils) |  |
| B.4.2 Hinged/Split Type Master Bushings  |
| Quantity: |  |
| Make/Model: |  |
| Sizes: |  |
| B.4.3 Kelly Bushing  |
| Quantity: |  |
| Make/Model: |  |
| Sizes: |  |
| B.4.4 Kelly Bushing Safety Guard  |
| Quantity: |  |
| Make/Model: |  |
| B.4.5 Top Drive |
| See INFORMATION ON PAGE 9 |  |

## Systems

### C.1 Rig Power Plant

| Item | Contractor Specifications  |
| --- | --- |
| C.1.1 Diesel Engine Plant (Rig Carrier Engine) |
| Quantity:  |  |
| Make:  |  |
| Type:  |  |
| Continuous output power available (kW/HP) each engine:  |  |
| C.1.2 AC-Generator (Auxiliary Generators) |
| Quantity:  |  |
| Make:  |  |
| Type:  |  |
| Continuous output power available (kW/HP) each engine:  |  |
| C.1.3A SCR System (EMISSION CONTROL) |
| Make:  |  |
| Type:  |  |
| C1.3B VFD System |
| Quantity:  |  |
| Make:  |  |
| Type:  |  |
| C.1.4 Transformer System  |
| Quantity:  |  |
| Make:  |  |
| Type:  |  |
| C.1.5 Rig service Air System  |
| Air Compressors  |
| Quantity:  |  |
| Make & Model:  |  |
| Rated capacity:  |  |
| Working pressure psi: |  |
| Air Receivers: |
| Quantity:  |  |
| Make & Type:  |  |
| Rated capacity:  |  |
| Working pressure psi: |  |

### C.2 Power Plant (Rig Site)

| Item | Contractor Specifications  |
| --- | --- |
| C.2.1 Diesel Engine Plant  |
| Quantity:  |  |
| Make:  |  |
| Type:  |  |
| Continuous power (kW/HP):  |  |
| C.2.2 AC-Generator (Auxilliary generators) - Standalone |
| Quantity:  |  |
| Make:  |  |
| Type:  |  |
| Continuous power (kW/HP):  |  |
| Output volts (Volts): |  |
| C.2.3 Lighting Towers  |
| Quantity:  |  |
| Make:  |  |
| Type:  |  |
| Continuous power (kW/HP):  |  |
| Output volts (Volts): |  |

##

## D Drillstring / Handling Tools

### D.1 Drillstring

| item | Contractor Specifications  |
| --- | --- |
| D.1.1 Drill Pipe  |
| OD/ID body inch  |  |
| Total length m  |  |
| Grade/Weight (kg/m & lbs/ft.)/Range  |  |
| Type of connection  |  |
| Tool joint OD inch  |  |
| Tool joint ID inch  |  |
| Type of hard banding  |  |
| D.1.2 Drill Collars |
| Size (inch):  |  |
| Spiral or Slick:  |  |
| Length(m):  |  |
| Range: |  |
| Weight (lb/ft.; kg/m): |  |
| BRS:  |  |
| Connection:  |  |
| ID:  |  |
| Qty: |  |
| D.1.3 HWDP (Heavy-Weight Drillpipe) |

### D.2 Handling Tools

| item | Contractor Specifications  |
| --- | --- |
| D.2.1 Drill PIpe Elevators |
| Size: |  |
| Quantity: |  |
| Make: |  |
| Model: |  |
| Rated Capacity: |  |
| D.2.2 Drill Collar Elevators |
| Size: |  |
| Quantity: |  |
| Make: |  |
| Model: |  |
| Rated Capacity: |  |
| D.2.3 Tubing Elevators  |
| Size: |  |
| Quantity: |  |
| Make: |  |
| Model: |  |
| Rated Capacity: |  |
| D.2.4 Drill PIpe Hand Slips  |
| Size: |  |
| Quantity: |  |
| Make: |  |
| Model: |  |
| D.2.5 Semi-automatic DP Slips |
| Size: |  |
| Quantity: |  |
| Make: |  |
| Model: |  |
| D.2.6 Drill Collar Slips |
| Size: |  |
| Quantity: |  |
| Make: |  |
| Model: |  |
| D.2.7 Drill Collar Safety Clamps |
| Size: |  |
| Quantity: |  |
| Make: |  |
| D.2.8 Tubing Slips |
| Size: |  |
| Quantity: |  |
| Make/Model: |  |
| D.2.9 Tubing Spider |
| Size: |  |
| Quantity: |  |
| Make/Model: |  |
| D.2.10 Drill Collar Lifting Subs |
| Quantity: |  |
| For OD DC: |  |
| Connection Type: |  |
| D.2.11 DC Lifting Plugs |
| Quantity: |  |
| For OD DC: |  |
| Connection Type: |  |
| D.2.12 Bit Breakers |
| Quantity: |  |
| Make / Type: |  |
| D.2.13 Elevator Links |
| Quantity: |  |
| Make / Type: |  |
| Size: |  |
| Length: |  |
| Rated Capacity: |  |
| D.2.14 Kelly Spinner |
| Quantity: |  |
| Make / Type: |  |
| D.2.15 Drillpipe Spinner |
| Quantity: |  |
| Make / Type: |  |
| D.2.16 Mud Saver Bucket |
| Make: |  |
| Size: |  |
| D.2.17 Hydraulic Make-Up/Breakout Machine (Ezy Torque) |
| Quantity: |  |
| Make / Type: |  |
| D.2.18 Rotary Rig Tongs |
| Quantity: |  |
| Make / Type: |  |
| D.2.19 Tubing Tongs (Manual) |
| Quantity: |  |
| Make / Type: |  |
| D.2.20 Tubing Tongs (Power) |
| Quantity: |  |
| Make: |  |
| Type: |  |
| Pipe Size Range: |  |
| Max torque Capacity: |  |
| Torque Indicator (Y/N): |  |
| Back Up Arm (Y/N): |  |
| D.2.21 Iron Roughneck |
| Make / Type: |  |

### D.3 Fishing Equipment

| item | Contractor Specifications  |
| --- | --- |
| D.3.1 Overshots |
| Quantity: |  |
| Make / Type: |  |
| Control Guide: | **Sucker Rods** **Tubing**  |
| Plain Guide: |  |
| Sucker Rod Bowl: |  |
| Grapples (basket): | **Sucker Rods** **Tubing**  |
| Grapples (spiral): | **Sucker Rods****Tubing**  |
| Top Sub: |  |
| D.3.2 Hydraulic Fishing Jar |
| Quantity: |  |
| Make / Type: |  |
| Connection Type: |  |
| Repair Kit: |  |
| D.3.3 Jar Intensifier |
| Make / Type: |  |
| D.3.4 Surface Jar |
| Make / Type: |  |
| D.3.5 Fishing Bumper Sub |
| Quantity: |  |
| Make / Type: |  |
| Connection Type: |  |
| Repair Kit: |  |
| D.3.6 Safety Joints |
| Quantity: |  |
| Make / Type: |  |
| Connection Type: |  |
| Repair Kit: |  |
| D.3.7 Junk Baskets (Reverse Circulation) |
| Quantity: |  |
|  |
| D.3.8 Junk Subs |
| Quantity: |  |
| Type thread: |  |
| D.3.9 Flat Bottom Junk Mill |
| Quantity: |  |
| Make / Type: |  |
| Connection Type: |  |
| Repair Kit: |  |
| D.3.10 Magnet Fishing Tools |
| Quantity: |  |
| Make / Type: |  |
| Connection Type: |  |
| Repair Kit: |  |
| D.3.11 Taper Taps |
| Quantity: |  |
| Make / Type: |  |
| Connection Type: |  |
| D.3.12 Die Collars |
| Quantity: |  |
| Make / Type: |  |
| Connection Type: |  |
| Size: |  |

##

## E Well Control equipment

### E.1 BOP Stack

| Item | Contractor Specifications  |
| --- | --- |
| E.1.1 BOP |
| A) Diverter / Circulation Head |
| Quantity:  |  |
| Make:  |  |
| Type:  |  |
| Size (inch):  |  |
| WP (psi):  |  |
| Connection top/bottom:  |  |
| B) Bag Type Preventer  |
| Quantity:  |  |
| Make:  |  |
| Type:  |  |
| Size (inch):  |  |
| WP (psi):  |  |
| Connection top/bottom:  |  |
| Fitted with accumulator bottle for stripping:  |  |
| C.1) Ram Type Preventer  |
| Quantity:  |  |
| Make:  |  |
| Type:  |  |
| Single/double:  |  |
| Size (inch):  |  |
| WP (psi):  |  |
| Side outlet ID (inch):  |  |
| Connection top/bottom:  |  |
| Lock mechanism:  |  |
| E.1.2 Kill / Choke Lines (hardlines) |
| Quantity:  |  |
| Type:  |  |
| Size (inch):  |  |
| WP (psi):  |  |
| E.1.3 Hydraulic Supply Lines (Koomey lines)  |
| Quantity:  |  |
| Type:  |  |
| Size (inch):  |  |
| WP (psi):  |  |

### E.2 BOP Control System

| item | Contractor Specifications  |
| --- | --- |
| E.2.1 Accumulator Unit  |
| Make:  |  |
| Model/type:  |  |
| Installation site:  |  |
| No. of bottles installed (Qty): |  |
| Total bottles capacity (litres): |  |
| Bottle working pressure (psi): |  |
| Control manifold model:  |  |
| Low pressure/low reservoir level alarms (y/n):  |  |
| Serial (No.):  |  |
| E.2.2 Triplex Pumps  |
| Quantity:  |  |
| Make:  |  |
| Model:  |  |
| Each driven by motor (kW):  |  |
| Flow rate of pump (litre):  |  |
| At max. operating pressure (psi):  |  |
| E.2.3 Air Pumps  |
| Quantity:  |  |
| Make: Model: Each driven by motor (kW):  |  |
| Flow rate of pump (litre):  |  |
| At max. operating pressure (psi): |  |
|  |  |
|  |  |
| E.2.4 Driller's Control Panel  |
| Make:  |  |
| Model:  |  |
| Serial No.:  |  |
| Low accumulator system pressure warning:  |  |
| Low reservoir level warning:  |  |
| Low rig air pressure warning: |  |
| Pressure regulator for bag:  |  |
| Control for by-pass valve: |  |
| Quantity of pressure gauges:  |  |
| E.2.5 local Control Panel  |

### E.3 Choke Manifold & Testing Equipment

| item | Contractor Specifications  |
| --- | --- |
| E.3.1 Choke Manifold  |
| Make:  |  |
| Size (inch): |  |
| Working Pressure (psi):  |  |
| H2S service (y/n):  |  |
| Quantity of valves:  |  |
| Make/model:  |  |
| Size (inch):  |  |
| Quantity of adjustable chokes:  |  |
| Make/type:  |  |
| Quantity of power chokes:  |  |
| Make/type:  |  |
| Power choke remote control panel (y/n):  |  |
| Make/type: |  |
| Glycol injection pump (y/n): |  |
| Make/type: |  |
| E.3.2 Flexible Choke & Kill Lines (shock hoses) |
| Make:  |  |
| Size (inch): |  |
| Working Pressure (psi):  |  |
| E.3.2 Hydraulic Test Pump |
| Make:  |  |
| Model:  |  |
| E.3.3 Test Stumps For BOP Testing  |
| Location:  |  |
| Complete with test tools (y/n): |  |
| Chart recorder detail:  |  |
| E.3.4 BOP Test Sub  |
| Type:  |  |
| Connection: |  |

##

## F. Mud System

### F.1 High Pressure Mud System

| item | Contractor Specifications  |
| --- | --- |
| F.1.1 Mud Pumps  |
| A) Mud Pump No. 1  |
| Make:  |  |
| Model:  |  |
| Mud pump driven by motors (No. & Type):  |  |
| Continuous power rating of each engine (kW (HP)):  |  |
| Fluid end type:  |  |
| Cylinders/valves cover:  |  |
| Equipped with:-  |
| * Pump stroke counter type:
 |  |
| * Liner sizes available inch:
 |  |
| * Supercharging pump type:
 |  |
| * Independently driven by motor kW (HP) Type:
 |  |
| * Discharge/suction line dia (ID x ID) inch:
 |  |
| * Working flowrate gpm:
 |  |

### F.2 Low Pressure Mud System – Tanks

| item | Contractor Specifications  |
| --- | --- |
| F.2.1 Mud Tank System  |
| A) Active Mud Tanks  |
| Quantity:  |  |
| Total capacity (bbl.): |  |
| Dimensions (m):  |  |
| Description/Capacity No. 1 (bbl.): |  |
| Description/Capacity No. 2 (bbl.): |  |
| Description/Capacity No. 3 (bbl.): |  |
| Capacity degasser tank (bbl.): |  |
| B) Water / Brine Tank (Frac Tank) |
| Quantity:  |  |
| Total capacity (bbl.): |  |
| Dimensions (m):  |  |
| Description/Capacity No. 1 (bbl.): |  |
| Description/Capacity No. 2 (bbl.): |  |
| Description/Capacity No. 3 (bbl.): |  |
| F.2.2 Settling Tank  |
| Quantity:  |  |
| Total capacity (bbl.): |  |
| Dimensions (m):  |  |
| Description/Capacity No. 1 (bbl.): |  |
| F.2.3 Pill Tanks |
| Quantity:  |  |
| Total capacity (bbl.): |  |
| Dimensions (m):  |  |
| Description/Capacity No. 1 (bbl.): |  |
| F.2.4 Trip Tank  |
| Quantity:  |  |
| Total capacity (bbl.): |  |
| Dimensions (m):  |  |
| Description/Capacity No. 1 (bbl.): |  |
| F.2.5 Stripping Tank  |
| Quantity:  |  |
| Total capacity (bbl.): |  |
| Dimensions (m):  |  |
| Description/Capacity No. 1 (bbl.): |  |
| F.2.6 Mud Agitators  |
| Quantity:  |  |
| Make:  |  |
| Model:  |  |
| Driven by motor of kW (HP): |  |
| F.2.7 Mixing Pumps/charge pumps |
| Quantity:  |  |
| Make/Model:  |  |
| Driven by motor rpm x kW (HP):  |  |
| F.2.8 Mud Mixing Hopper  |
| Make/Model:  |  |
| Type:  |  |
| F.2.9 Transfer Pumps  |
| Quantity for mud tanks:  |  |
| Quantity for water tanks:  |  |
| Make/Model:  |  |
| Type:  |  |
| Driven by motor (type):  |  |
| Power output kW (HP):  |  |
| F.2.10 Chemical Mixing Tank  |
| Quantity:  |  |
| Total capacity (bbl.): |  |
| Dimensions (m):  |  |
| Description/Capacity No. 1 (bbl.): |  |
| F.2.11 Caustic Mixing Unit  |
| Quantity: |  |
| Make/Model: |  |
| Type: |  |
| Total capacity (bbl.): |  |

### F.3 Low Pressure Mud System – Process Equipment

| item | Contractor Specifications  |
| --- | --- |
| F.3.1 Shale Shaker  |
| Quantity: |  |
| Make/Model: |  |
| F.3.2 Desander  |
| Quantity: |  |
| Make/Model: |  |
| F.3.3 Desilter  |
| Quantity: |  |
| Make/Model: |  |
| F.3.4 Mud/Gas Separator (Poor Boy)  |
| Quantity: |  |
| Make/Model: |  |
| F.3.5 Vacuum Degasser  |
| Quantity: |  |
| Make/Model: |  |
| F.3.5 Centrifuge |
| Quantity: |  |
| Make/Model: |  |
| F.3.6 Cellar Pump (lung/water pumps) |
| Quantity: |  |
| Make/Model: |  |

### F.4 Mud Laboratory – Equipment & Chemicals

| item | Contractor Specifications  |
| --- | --- |
| F.4 Mud Laboratory  |
| Make/Model: |  |
|  |

##

## G. Casing / Cementing

### G.1 Casing Equipment

| item | Contractor Specifications  |
| --- | --- |
| G.1.1 Side Door Elevators  |
| Make/Model: |  |
| Total capacity (bbl.): |  |
| Size: |  |
| G.1.2 Single Joint Elevators  |
| Make/Model: |  |
| Total capacity (bbl.): |  |
| Size: |  |
| G.1.3 Slip Type Elevator/Spider  |
| Make/Model: |  |
| Total capacity (bbl.): |  |
| Size: |  |
| G.1.4 Power Casing Tong  |
| Make/Model: |  |
| Torque size: |  |
| G.1.5 Power Tubing Tong  |
| Make/Model: |  |
| Torque size: |  |
| G.1.6 Hydraulic Casing Tongs |
| Make/Model: |  |
| Torque size: |  |
| G.1.7 HPU For Hydraulic Casing Tongs |
| Make/Model: |  |
| Torque size: |  |

## H. Instrumentation / Communication

### H.1 Drilling Instrumentation

| item | Contractor Specifications  |
| --- | --- |
| H.1 Drilling Instrumentation  |
| General Alarm System:The alarm shall be audible under all operating conditions throughout the drilling location, including external and internal workspaces. It shall consist of the following characteristics: Audible signal Visual signal A flashing Light. |  |
| At driller’s console  |  |
| * Block Height Indicator
 |  |
| * Weight indicator (hook load)
 |  |
| * Standpipe pressure gauge; Vernier
 |  |
| * Rotary Torque Indicator
 |  |
| * Total Gas Percentage (including LEL conversion)
 |  |
| * Pump Stroke Counters
 |  |
| * Tong Torque Indicator
 |  |
| * Pit Volume Totaliser
 |  |
| * Rotary speed tachometer.
 |  |
| * Mud flow indicator
 |  |
| * Trip Tank Indicator
 |  |
| * Remote Choke Control
 |  |
| * Utility standpipe pressure gauge
 |  |
| Standpipe pressure gauge, mounted on standpipe, visible from drillers position. |  |
| At driller’s doghouse Drilling parameter recorder; computerised monitoring or pen recorder for: * WOB / string weight (lbs)
* Rate of penetration (m/hr)
* Rotary speed (RPM)
* Rotary torque (Amps)
* Pump pressure (psi)
* Pump rate each pump (SPM)
* Pit volume recorder; 24 hr recorder monitoring active & reserve tanks.
* Flowrate recorder; 24 hr recorder.
* Trip tank recorder; 24 hr recorder.
 |  |
| At choke manifold: |  |
| * Standpipe pressure gauge.
 |  |
| * Choke manifold pressure gauge; 0 - 10,000 psi.
 |  |
| * Gauges at choke manifold to be combined on one panel and be visible from choke operating position.
 |  |
| Deviation Equipment |  |
| General Instruments  |  |
| * Tri-cone bit gauge rings;
 |  |
| * Internal / external callipers; 0-10”
 |  |
| * Derrick tapes; 0-30m.
 |  |

### H.2 Rig Communication System

| Description & Specifications | ComplianceYES / NO |
| --- | --- |
| CONTRACTOR shall provide adequate radio, electronic mail, data transmission, fax and telephone communications including:  |
| All communication required for CONTRACTOR operations between WORKOVER UNIT and COMPANY / CONTRACTOR SUPPLY BASES, COMPANY and CONTRACTOR OFFICES etc.  |  |
| Accommodation for CONTRACTOR, COMPANY and OTHER CONTRACTOR radio / communication equipment, including data display screens.  |  |
| An EX-Category 1 rated safe communication link between WORKOVER UNIT personnel and COMPANY REPRESENTATIVE.  |  |
| Emergency provision of satellite voice communication to COMPANY.  |  |

| item | Contractor Specifications  |
| --- | --- |
| H.2.1 Public Address System  |
| Make/Type/Description: |  |
| Explosion proof (y/n): |  |
| H.2.2 Intercom System  |
| Make/Type/Description: |  |
| Explosion proof (y/n): |  |
| H.2.3 Telephone and Internet System  |
| Make/Type/Description: |  |
| Explosion proof (y/n): |  |
| H.2.4 UHF Radios  |
| Make:  |  |
| Type:  |  |
| Explosion proof (y/n): |  |
| H.2.5 CCTV System  |
| Make/Type/Description: |  |
| Explosion proof (y/n): |  |

##

## I. Production Test Equipment

| item | Contractor Specifications  |
| --- | --- |
| I.1 Burners |
| Quantity: |
| Make/Type/Description: |
| I.2 Burner Rooms |
| Quantity: |
| Make/Type/Description: |
| I.3 Piping On Burner Rooms |
| Quantity: |
| Make/Type/Description: |
| I.4 Sprinkler Systems |
| Quantity: |
| Make/Type/Description: |
| I.5 Fixed Piping for Well Testing |
| Quantity: |
| Make/Type/Description: |
| I.6 Auxiliary Power Availability (for laboratory, crude transfer & electric Heaters) |
| Quantity: |
| Make/Type/Description: |
| I.7 Compressed Air Packages |
| AIR COMPRESSORS |
| Quantity: |  |
| Make/Model/Capacity |  |
| BOOSTER |
| Quantity: |  |
| Make/Model/Capacity |  |
| I.8 SCUF Tank |
| Quantity: |  |
| Make/Model/Capacity |  |

## J. Workover Tools

### J.1 Rod Equipment

| item | Contractor Specifications  |
| --- | --- |
| J.1.1 Rod Stripper |
| Quantity: |  |
| Description: |  |
| J.1.2 Rod Elevators |
| Quantity: |  |
| Make:  |  |
| Model: |  |
| Size: |  |
| Capacity: |  |
| J.1.3 Rod Hook |
| Quantity: |  |
| Make:  |  |
| Model: |  |
| Capacity: |  |
| J.1.4 Snap Wrenches |
| Quantity: |  |
| Make:  |  |
| Type: |  |
| Size: |  |
| J.1.5 Rod Tong |
| Quantity: |  |
| Make:  |  |
| Model: |  |
| Size: |  |
| Capacity: |  |

### J.2 Tubing Equipment

| item | Contractor Specifications  |
| --- | --- |
| J.2.1 Safety Valves |
| Quantity: |  |
| Make: |  |
| Size:  |  |
| Min. drill pipe ID required: |  |
| Connections (type): |  |
| Connections OD: |  |
| Working pressure rating (Psi): |  |
| J.2.2 Kelly Safety Valve |
| Quantity: |  |
| Make: |  |
| Type: |  |
| Working pressure rating (Psi): |  |
| Max. OD body: |  |
| Min. ID body: |  |
| Type of connection |  |
| J2.3 Side Entry Sub |
| Quantity: |  |
| Bottom connection 4½” IF |  |
| Top connection 4½” IF |  |
| Side Entry 2” WECO connection |  |
| Working pressure rating (Psi): |  |
| J.2.4 BPV’s & TWCV’s |
| Quantity: |  |
| Description: |  |
| J.2.5 Drifts |
| Quantity: |  |
| To Suit: |  |
| J.2.6 Crossovers |
| Short Crossovers: |  |
| Crossovers: |  |
| Near Bit Subs: |  |
| J.2.7 Float Valves |
| Quantity: |  |
| Make: |  |
| Type: |  |
| For OD Drill Collar: |  |
| J.2.8 Cup Testers |
| Quantity: |  |
| Size test cup for casing sizes 13 ⅜”, 9 ⅝” |  |

### J.3 Vehicles

| item | Contractor Specifications  |
| --- | --- |
| J.3.1 Crew Vehicles |
| Quantity: |  |
| Description: |  |
| J.3.2 Loader / Telehandler |
| Quantity: | 1 |
| Description: | **Loader****Make:** **Lift Capacity with Stinger /JIB:** **Lift Capacity with Bi-Fold Forks:** **Attachments:**  |

## K. Rig Office, Sleeping and Ablution Accommodation

| Description & Specifications | ComplianceYES / NO |
| --- | --- |
| Offices on the WORKOVER UNIT for COMPANY personnel. A computerised system to monitor relevant parameters, and monitors connected to the WORKOVER UNIT data acquisition system for monitoring data screens shall be available in the COMPANY REPRESENTATIVE office.  |  |
| CONTRACTOR shall provide accommodation facilities in the form of a mobile WORKOVER UNIT CAMP. The camp shall be sized to accommodate all CONTRACTOR personnel, a minimum of two (2) COMPANY PERSONNEL and a minimum of six (6) THIRD PARTY OTHER CONTRACTOR personnel on behalf of the COMPANY.  |  |
| CONTRACTOR shall provide eight (8) person accommodation units with shared en-suite bathroom facilities.  |  |
| CONTRACTOR shall provide accommodation, ablution facilities and catering which are in compliance with legislation.  |  |
| Full Camp Management Services including catering, cleaning, housekeeping and waste removal / disposal.  |  |
| CONTRACTOR shall obtain appropriate permits and authorisation including, but not necessarily limited to, building permit, plumbing compliance certificate, food preparation licence etc.  |  |
| Dedicated accommodation with shower and sanitary facilities for COMPANY REPRESENTATIVE, and other assigned COMPANY PERSONNEL including visitors;  |  |
| CONTRACTOR shall provide potable drinking water supplied and stored in bulk. Should the bulk potable water system be inoperable for a prolonged period of time (more than 12 hours), then bottled water shall be provided by CONTRACTOR at CONTRACTOR’s cost.  |  |
| Dedicated recreation room with minimum of one (1) set of 80cm LCD/ LED TV or equivalent and DVD player complete with satellite TV subscription and wireless internet connection;  |  |
| Wireless internet connection to be accessible from all accommodation areas, dining and recreation areas.  |  |
| Air-conditioned fitness room containing as a minimum: * treadmill machine;
* spin bike;
* range of free weights;
* weight bench;
* multi-gym machine;
 |  |
| All catering personnel shall have completed a safe food-handling course. In addition, CONTRACTOR shall provide health certificates for all catering personnel.  |  |
| CONTRACTOR shall make provision for the supply of regular and scheduled snacks to be delivered to the WELL WORKSITE in between meals (commonly known as ‘smoko’). The supply of such shall be included in the daily ALL-IN RIG rate in accordance with Section III – Schedule of Prices and Rates.  |  |
| CONTRACTOR shall supply and install a large ‘magna-board’ at the ‘smoko’ shack (this is in addition to the board displaying POB and ERP details), it will be used for Assist and Assure and toolbox meetings.  |  |
| When requested by the COMPANY, CONTRACTOR shall supply meals to COMPANY PERSONNEL and / or THIRD PARTY. In the case of THIRD PARTY request for meals, CONTRACTOR may seek approval from COMPANY REPRESENTATIVE.  |  |
| In accordance with the requirements outlined in Article 17.1 (h) of this Section IV – Scope of Work, CONTRACTOR shall provide, at its cost, potable water as required for an efficient and continuous operation. |  |
| CONTRACTOR to provide adequate first aid equipment on site to provide initial care to any foreseeable injury or illness. |  |
| COMPANY to provide additional medical facilities and services at COMPANY FIELD OFFICE and COMPANY SUPPLY BASE. |  |

### K.1 Wellsite Buildings

| item | Contractor Specifications  |
| --- | --- |
| K.1.1 Site Office Building |
| Quantity: |  |
| Description: |  |
| K.1.2 Wellsite Accommodation |
| Quantity: |  |
| Description: |
| K.1.3 Wellsite Facilities |
| CRIB ROOM |
| Quantity: |  |
| Description: |  |
| WORKSHOP |
| Quantity: |  |
| Description: |

### K.2 Main Camp Structures

| item | Contractor Specifications  |
| --- | --- |
| K.2.1 Accommodation Buildings |
| Quantity: |  |
| Number of Rooms: |  |
| Number of Beds per Room: |  |
| Bathroom Facilities (private/shared/communal): |  |
| Description: |  |
| K.2.2 Kitchen & Dining room |
| Quantity: |  |
| Description: |  |
| K.2.3 frozen / cold & dry storage  |
| Quantity: |  |
| Description: |  |
| K.2.4 recreation room & laundry |
| Quantity: |  |
| Description: |  |
| K.2.5 recreation room, gym & seating area  |
| Quantity: |  |
| Description: |  |
| K.2.6 combined generator / water storage utility skid  |
| Quantity: |  |
| Description: |  |
| K.2.7 sewerage treatment |
| Quantity: |  |
| Description: |  |

##

## L. Safety Equipment

| Description & Specifications | ComplianceYES / NO |
| --- | --- |
| Installation of CONTRACTOR ITEMS, as specified in the CONTRACT to meet the specified requirements of the service;  |  |
| Provision of safety equipment as specified in the CONTRACT, which is in good working condition and maintained according to manufacturer’s specification;  |  |
| Provision of an adequate spare parts inventory for the service and maintenance of all the safety equipment supplied; |  |
| Provision of clothing and equipment to each CONTRACTOR PERSONNEL at the WELL location including as a minimum the following: * safety helmet approved to a recognised international standard;
* eye protection (as necessary);
* ear protection (where noise levels exceed 85dB(A));
* gloves suitable for the WORK, including but not limited to impact resistant gloves for handling of heavy equipment and tools, and cut resistant gloves for handling metal cutting from milling operations;
* fire retardant shirt suitable for the WORK;
* fire retardant trousers suitable for the WORK;
* safety boots suitable for the WORK;
* H2S/gas detection equipment - fixed system and handheld, both suitably zone rated. Minimum number of three (3) detection points and centralised alarm system run off rig power.
* fire retardant rain coat/suit;
* aprons suitable for the WORK;
* face masks suitable for the WORK;
* breathing apparatus
* suits for working with hazardous fluids (i.e. hydraulic oil).
 |  |
| CONTRACTOR shall ensure that all SUBCONTRACTORS have the required safety equipment of acceptable quality.  |  |
| Provision of Fire Fighting equipment / teams comprising: * Fire-fighting equipment in accordance with internationally recognised standards, the equipment list herein the CONTRACT, specifically Section VI – Technical Specifications.
* Fire-fighting teams trained by an approved training centre which is acceptable in the COUNTRY OF OPERATION and which has been approved by COMPANY.
 |  |
| CONTRACTOR to provide adequate first aid equipment on site to provide initial care to any foreseeable injury or illness. |  |
| COMPANY to provide additional medical facilities and services at COMPANY FIELD OFFICE and COMPANY SUPPLY BASE. |  |

### L.1 General Safety Equipment

| item | Contractor Specifications |
| --- | --- |
| L.1.1 General Personnel Protective Equipment |
| Safety Equipment:* safety helmet approved to a recognised international standard;
* eye protection (as necessary);
* ear protection (where noise levels exceed 85dB(A));
* gloves suitable for the WORK, including but not limited to impact resistant gloves for handling of heavy equipment and tools, and cut resistant gloves for handling metal cutting from milling operations;
* fire retardant shirt suitable for the WORK;
* fire retardant trousers suitable for the WORK;
* safety boots suitable for the WORK;
* fire retardant rain coat/suit;
* aprons suitable for the WORK;
* face masks suitable for the WORK;
* suits for working with hazardous fluids (i.e. hydraulic oil).
 |  |
| L.1.2 Decontamination Stations |
| Eye Wash Stations |
| Quantity: |  |
| Make / Model: |  |
| Location: |  |
| Safety Showers |
| Quantity: |  |
| Make / Model: |  |
| Location: |  |
| L.1.3 Derrick Safety Equipment |
| Type: |  |
| Make: |  |
| L.1.4 Derrick Climbing Assistant |
| Quantity: |  |
| Make / Model: |  |
| Location: |  |
| L.1.5 Fresh Air Blowers (Bug Blowers) |
| Quantity: |  |
| Make / Model: |  |

### L.2 Gas / Fire / Smoke Detection

| item | Contractor Specifications |
| --- | --- |
| L.2.1 H2S Monitoring System (Fixed) |
| Quantity: |  |
| Make / Type: |  |
| Location: |  |
| L.2.2 Combustible Gas Monitoring System (Fixed) |
| Quantity: |  |
| Make / Type: |  |
| Location: |  |
| L.2.3 H2S Gas Detectors (Portable) |
| Quantity: |  |
| Make / Type: |  |
| L.2.4 CO2 Gas Detectors (Portable) |
| Quantity: |  |
| Make / Type: |  |
| L.2.5 Explosimeters |
| Quantity: |  |
| Make / Type: |  |
| L.2.6 Fire / Smoke Detectors in Accommodation |
| Quantity: |  |
| Make / Type: |  |

### L.3 Fire Fighting Equipment

| item | Contractor Specifications |
| --- | --- |
| L.3.1 Fire Pumps |
| Quantity: |  |
| Make / Type: |  |
| L.3.2 Hydrants & Hoses |
| Quantity: |  |
| Make / Type: |  |
| L.3.3 Portable Fire Extinguishers |
| Quantity: |  |
| Make / Type: |  |
| L.3.4 Fire Blankets |
| Quantity: |  |
| Make / Type: |  |
| L.3.5 Fixed Foam System |
| Quantity: |  |
| Make / Type: |  |
| L.3.6 Helideck Foam System |
| Quantity: |  |
| Make / Type: |  |
| L.3.7 Fixed Fire Extinguishing System |
| Quantity: |  |
| Make / Type: |  |
| L.3.8 Manual Water Deluge System |
| Quantity: |  |
| Make / Type: |  |
| L.3.9 Water Sprinkler System in Accommodation |
| Quantity: |  |
| Make / Type: |  |

### L.4 Breathing Apparatus

| item | Contractor Specifications |
| --- | --- |
| L.4.1 General Sets |
| Quantity: |  |
| Make / Type: |  |
| L.4.2 Derrickman Escape Sets |
| Quantity: |  |
| Make / Type: |  |
| L.4.3 Cascade Stations |
| Quantity: |  |
| Make / Type: |  |
| L.4.4 Breathing Air Recharge Compressor |
| Quantity: |  |
| Make / Type: |  |
| L.4.5 Compressed Air Breathing Apparatus Trolley |
| Quantity: |  |
| Make / Type: |  |
| L.4.6 Air Purity Test Equipment |
| Quantity: |  |
| Make / Type: |  |

### L.5 Emergency First Aid Equipment

| item | Contractor Specifications |
| --- | --- |
| L.5.1 First Aid Kits |
| Quantity: |  |
| Make / Type: |  |
| L.5.2 Burn Kits |
| Quantity: |  |
| L.5.3 Resuscitators |
| Quantity: |  |
| Make / Type: |  |
| L.5.4 Stretchers |
| Quantity: |  |
| Make / Type: |  |

### L.6 Helideck Rescue Equipment

| item | Contractor Specifications |
| --- | --- |
| L.6.1 Helideck Rescue Equipment |
| Make / Model: |  |
| Location: |  |

### L.7 Emergency Warning Alarms

| item | Contractor Specifications |
| --- | --- |
| L.7.1 Emergency Warning Alarms |
| Quantity: |  |
| Make / Type: |  |

### L.8 Survival Equipment

| item | Contractor Specifications |
| --- | --- |
| L.8.1 Lifeboats |

## M. Pollution Prevention Equipment

| item | Contractor Specifications |
| --- | --- |
| M.1 Sewage Treatment |
| Quantity: |  |
| Make / Type: |
| M.2 Garbage Compaction |
| Quantity: |
| Make / Type: |
| Capacity: |
| M.3 Garbage Disposal / Grinder |
| Quantity: |
| Make / Type: |
| Capacity: |
| M.4 Incinerator |
| Quantity: |
| Make / Type: |
| Capacity: |
| M.5 Oily Water Separator |
| Quantity: |
| Capacity: |
| M.6 Waste Oil |
| Quantity: |  |
| Capacity: |  |
| M.7 Oil & Lubricant Storage |
| Quantity: |  |
| Capacity: |  |
| M.8 Diesel Fuel Storage |
| Quantity: |  |
| Capacity: |  |

## N. Drilling Data Equipment

### N.1 Drilling Data Equipment

| item | Contractor Specifications |
| --- | --- |
|  |

## O. Drawings

### O.1 Drawings

|  |  |
| --- | --- |
| ITEM  | Contractor Specifications  |
|  |  |

## P. Other Additional

### P.1 Additional

|  |  |
| --- | --- |
| ITEM  | Contractor Specifications  |
|  |  |