

RIG AND EQUIPMENT SPECIFICATIONS

TECHNICAL ATTACHMENT B

INTERNATIONAL ASSOCIATION OF DRILLING CONTRACTORS

STANDARD FORMAT EQUIPMENT LIST

JACK-UP DRILLING UNITS

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| SPECIFICATION | DESCRIPTIONS |
|--|---|
| A. UNIT SPECIFICATIONS Rig type: Unit/Design/Shape: Unit flag: Unit classification: IMO Certification: yes/no | Jack up BMC 150 Liberia ABS Yes |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|--|--------------------------------|
| Which code version: | |
| Year of Construction: | 1981 |
| Construction Yard: | Promet (PTE) Limited Singapore |
| A.1 MAIN DIMENSIONS / TECHNICAL DESCRIPTION | |
| Light ship: | kips 11246.08Kips |
| Displacement at loadline: | kips 14,520 Kips |
| Overall length of unit (including Helideck): | ft 227.5ft |
| Overall width of unit (including anchor racks): | ft 156ft |
| Hull length: | ft 151ft |
| Hull width: | ft 156ft |
| Hull depth: | ft 18 ft. |
| Number of legs/length: | no. x ft 3 X 217 ft. |
| Leg length available below hull: | ft Around 170 ft |
| Type of leg: | Tubular |
| Leg spacing (center to center) | |
| Traverse: | ft 128 ft |
| Longitudinal: | ft 113 ft |
| Independent leg or matt: | Independent leg |
| Spud can diameter: | ft N/A |
| Spud can height: | ft N/A |
| Spud can footing area: | N/A |
| Spud can jetting system: Low & High (150&750+psi) | N/A |
| | no |
| Bottom jets: | yes/no Yes (low pressure) |
| Top jets: | yes/no No |
| Mat dimensions: | N/A |
| Length: | ft N/A |
| Width: | ft N/A |
| Depth: | ft N/A |
| Cantilever or slot: | Cantilever |
| Skid-off: No / Yes | Yes |
| Cantilever envelope: | |
| Reach AFT, from / to: | ft/ft 0 ft to 40 ft |
| Transverse, port/stbd: | 10 ft port /10 ft S/B |
| Slot dimensions: | |
| Length: | ft |
| Width: | ft |
| Mat slot dimensions: | |
| Length: | ft |
| Width: | ft |
| Max. cantilever load: | |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | | DESCRIPTIONS |
|--|----------|---|
| (combined hook + rotary + setback) | kips | 400 Kips, 40 ft aft and 10 ft left or right from centerline |
| Max. rotary load: | | 750 kips |
| Max. setback load: | kips | 500 Kips |
| Fuel Consumption (avg. drilling): | bbbl/day | 60bbbl/day |
| Accommodation for max. # of personnel: (See K.2.1): | no. | 88 |
| A.2 STORAGE CAPACITIES | | |
| Fuel: | bbbl | 2,162 bbl |
| Drilling water: | bbbl | 6,156 bbl |
| Potable water: | bbbl | 2,052 bbl |
| Mud processing tank (see F.2): | bbbl | 1,549 bbl |
| Active liquid mud (see F.2): | bbbl | 1,549 bbl |
| Independent oil base mud storage: | bbbl | |
| Agitated: | yes/no | yes |
| Independent base oil storage: | bbbl | 34 bbl |
| Independent brine storage: | bbbl | 104 bbl |
| Heavy brine accepted (e.g. bromide): | yes/no | |
| Bulk bentonite/barite: (see F.3) | ft3 | 4,000 ft3 |
| Bulk cement: (see F.3) | ft3 | 4,000 ft3 |
| Sack storage: | sacks | 5000 SX (1500 ft3) |
| Pipe rack: | ft2 | 2392ft2 |
| Upper racks dimensions: | ft x ft | 46x52 |
| Maximum load capacity: | lb/ft2 | 200 lb/ft2 |
| Lower rack dimensions: | ft x ft | 42x44 |
| Maximum load capacity: | lb/ft2 | 200 lb/ft2 |
| Other rack: | ft x ft | 30x3 |
| Maximum load capacity: | lb/ft2 | 100 |
| Other rack: | ft x ft | |
| Maximum load capacity: | lb/ft2 | |
| Miscellaneous storage area: | ft2 | 550ft2 |
| Operator storage area: | ft2 | 7471ft2 |
| Preload capacity (Required): | st | 15,000 kips |
| Time to fill and dump preload: | hrs | 6 filling / 2 dumping |
| A.3 JACKUP SYSTEMS | | |
| A.3.1 Jacking Systems | | |
| | | Baker Marine |
| Make/type: | | BMC / Rack and Pinion |
| No. - jacks or pinions: | no. | 18 |
| Maximum variable jacking load: | kips | 10,800 Kips. |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|-------------------------------------|----------------------|
| Jacking speed: | ft/min 1 ft/min |
| Rack chocks available: | yes/no no |
| Required for field tow: | yes/no no |
| Required for ocean tow: | yes/no no |
| A.3.2 Raw Water Systems | |
| | no 1 |
| Pump location (water tower or leg): | Water Tower |
| Suction distance below hull (max): | ft 70 ft. |
| Preload/Salt water service pump: | |
| Quantity: | no. 3 each |
| Make/Type: | Pleuger/ Submersible |
| Capacity: | gal/min 830 gal/min |
| @ pressure: | psi 40 psi |
| Horsepower: | hp 60 hp |
| Salt water service pump: | |
| Quantity: | no. |
| Make/Type: | |
| Capacity: | gal/min |
| @ pressure: | psi |
| Horsepower: | hp |
| Salt water service pump: | |
| Quantity: | no. |
| Make/Type: | |
| Capacity: | bbbl/min |
| @ pressure: | psi |
| Horsepower: | hp |
| Dedicated preload pumps: | |
| Quantity: | no. No |
| Make/Type: | |
| Capacity: | bbbl/min |
| @ pressure: | psi |
| Horsepower: | hp |
| Dedicated preload pumps: | |
| Quantity: | no. |
| Make/Type: | |
| Capacity: | bbbl/min |
| @ pressure: | psi |
| Horsepower: | hp |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|--|--|
| A.4 OPERATIONAL CAPABILITIES | |
| Maximum design water depth capability: | ft 160 ft |
| Outfitted max/min water depth capability: | ft Max 110 ft/ Min 20 ft |
| Normal minimum water depth capability: | ft 20 ft |
| Draft at load line (deepest): | ft 12 ft |
| Drilling depth capability (rated): | ft 20,000 ft. vertical |
| Transit speed towed (historical avg.): | knots 3 knots avg |
| Leg (spud can) below hull in transit (Field Move): | ft 0 / leg flush with bottom of the hull |
| Maximum leg length permitted in tow: | ft 217 ft |
| Ocean tow (Wet): | ft 37 ft below bottom hull |
| Field tow: | ft 0 |
| Number of tugs for field tow: | no. 2 |
| Associated minimum bollard pull: | st 121.25 st / 242,500 lbs |
| Anti-roll system: | yes/no No |
| Maximum preload reaction: | kips |
| Bearing pressure at maximum preload: | lb/ft2 |
| Thrusters: | yes/no |
| Quantity: | no. |
| Fixed/Azimuthing | |
| Total horsepower per thruster: | hp |
| A.5 VARIABLE LOAD CAPACITY (VL) (exclusive of drilling loads) | |
| Transit VL capacity: | kips 3273.92/ 12 ft draft |
| Drilling VL capacity: | kips 3182 |
| Survival VL capacity: | kips 2509 kips |
| Jacking VL capacity: | kips 2509 kips |
| A.6 ENVIRONMENTAL LIMITS | |
| Transit | |
| Max. wave height: | ft 28ft |
| Max. wave period: | sec 10 |
| Max. wind velocity | knots 70 knots |
| Max. current velocity: | knots 0 |
| Max. heave (double amplitude): | ft |
| Max. pitch (double amplitude): | degrees 5 |
| Max. roll (double amplitude): | degrees 5 |
| Working water depth: | ft 160 ft. |
| Drilling: | |
| Air gap (below bottom of main hull): | ft 44.5 ft. |
| Max. wave height: | ft 28 ft. |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|--|-------------------------------|
| Max. wave period: | sec 10 sec. |
| Max. wind velocity: | knots 58 knots |
| Max. current velocity: | knots 0 |
| Survival: | |
| Air gap (below bottom of main hull): | ft 35 ft / 110 ff water depth |
| Max. wave height: | ft 29.52 ft. |
| Max. wave period: | sec 9.1 sec. |
| Max. wind velocity: | knots 60.29 knots |
| Max. current velocity: | knots 2.33 knots. |
| Working water depth: | ft |
| Drilling: | |
| Air gap (below bottom of main hull): | ft |
| Max. wave height: | ft |
| Max. wave period: | sec |
| Max. wind velocity: | knots |
| Max. current velocity: | knots |
| Survival: | |
| Air gap (below bottom of main hull): | ft |
| Max. wave height: | ft |
| Max. wave period: | sec |
| Max. wind velocity: | knots |
| Max. current velocity: | knots |
| A.7 MOORING SYSTEM | |
| A.7.1 Anchor Winches | |
| Quantity: | no. 4 |
| Make/model: | BMC 6020 |
| Type (electric/hydraulic/diesel): | Electric |
| Total HP per winch: | hp 40 hp motor |
| Rated pull: | st 50,000 lbs line pull. |
| Control locations (local/remote/both): | local |
| A.7.2 Anchors | |
| Quantity: | no. NO |
| Make/type: | |
| Weight: | lbs. |
| A.7.3 Anchor Lines | |
| Wire | |
| Quantity: (installed + spare): | no. 4 each |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|--|--|
| Make/type: Construction: Diameter: in Useful length (nominal): ft | IWRC Cable 1-1/4" 2500 ft |
| A.7.4 Towing Gear | |
| Towing bridle size: in Hook-up system: Rating: kips Spare bridle: yes/no | 1 EA 2" X 30 ft Wire Rope 2 EA 2-1/4" X 116 Ft wire rope 40.1 T yes |
| A.7.5 Supply Vessel Mooring System | |
| System description: Rating: st Location (port/stbd/both): | 4" Nylon mooring rope 224000 (KGF) |
| A.8 MARINE LOADING HOSES | |
| Location of loading manifolds (port/stbd/both):no. | Both |
| A.8.1 Potable Water Hoses | |
| Quantity: no. Size: in Make/type: Color coding: yes/no Make/type connection: | 1 3" Alfa Goma T509 / rubber yes Swedge type union |
| A.8.2 Drilling Water Hose | |
| Quantity: no. Size: in Make/type: Color coding: yes/no Make/type connection: | 1 3" Alfa Goma T509 / rubber Yes Swedge type union |
| A.8.3 Gas/Fuel Oil Hose | |
| Quantity: no. Size: in Make/type: Color coding: yes/no Make/type connection: | 1 3" Alfa Goma T609 / rubber Yes Swedge type union |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|---|-------------------------|
| A.8.4 Mud Chemical Hose (Liquid Mud) | |
| Quantity: no. | 1 |
| Size: in | 4" |
| Make/type: | Alfa Goma T720 / rubber |
| Color coding: yes/no | No |
| Make/type connection: | Swedge type union |
| A.8.5 Cement Hose | |
| Quantity: no. | 1 |
| Size: in | 4" |
| Make/type: | Alfa Goma T720 / rubber |
| Color coding: yes/no | No |
| Make/type connection: | Swedge type union |
| A.8.6 Liquid Mud Hose | |
| Quantity: no. | 1 |
| Size: in | 4" |
| Make/type: | Alfa Goma T720 / rubber |
| Color coding: yes/no | No |
| Make/type connection: | Swedge type union |
| A.8.7 Brine Hose | |
| Use: | |
| Quantity: no. | 1 |
| Size: in | 4" |
| Make/type: | Alfa Goma T720 / rubber |
| Color coding: yes/no | No |
| Make/type connection: | Swedge type union |
| A.8.8 Other | |
| Use: | |
| Quantity: no. | |
| Size: in | |
| Make/type: | |
| Color coding: yes/no | |
| Make/type connection: | |
| A.9 CRANES, HOIST, AND MATERIAL HANDLING | |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|---|--|
| A.9.1 Cranes, Revolving | |
| Quantity: | no. 1 |
| Specification (API, etc.): | ABS |
| Make: | Baker Marine |
| Type: | BMC 900 |
| Location (frwd/aft/port/stbd): | Starboard side |
| Boom length: | ft 100 ft |
| Hook reach below main deck (block/whip): | ft/ft 173 ft./ 198 ft |
| Block capacities and hoisting speeds: | 25 st 0 to 52 ft/min |
| Load/radius/speed (minimum radius): st/ft/(ft/sec) | 25 st / 20 ft/ 31 ft min |
| Load/radius/speed (maximum radius): st/ft/(ft/sec) | 7.5 st / 103 ft/ 31 ft min |
| Whip capacity and hoist speed: | st/ft/(ft/sec) 3.3 st / 264 ft/min |
| Hook load indicator automatically: | |
| corrected for boom angle: | yes/no Yes |
| Alarm (audible, visual, both): | Yes |
| Automatic brake: | yes/no yes |
| Safety latch on hooks: | yes/no Yes |
| Crown saver (limit switch): | yes/no Yes |
| Boom illumination: | yes/no Yes |
| Quantity: | no. 1 |
| Specification (API, etc.): | ABS |
| Make: | BMC |
| Type: | BMC 1600D-CU |
| Location (frwd/aft/port/stbd): | Portside |
| Boom length: | ft 100 ft |
| Hook reach below main deck (block/whip): | ft/ft Total length of wire rope 1840 ft/ 400 ft long 7/8" |
| Block capacities and hoisting speeds: | 50 st / 30 ft radius |
| Load/radius/speed (minimum radius): st/ft/(ft/sec) | 50 st / 30 ft |
| Load/radius/speed (maximum radius): st/ft/(ft/sec) | 9.5 st / 106.67 ft min |
| Whip capacity and hoist speed: | st/ft/(ft/sec) 6 st |
| Hook load indicator automatically: | |
| corrected for boom angle: | yes/no Yes |
| Alarm (audible, visual, both): | Yes |
| Automatic brake: | yes/no Yes |
| Safety latch on hooks: | yes/no Yes |
| Crown saver (limit switch): | yes/no Yes |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|---|-------------------------|
| Quantity: no. | 1 |
| Make/type: | Yale Stacker / Electric |
| Rated capacity: st | 1.5 st |
| Explosion proof: yes/no | No |
| A.9.3 Monorail Overhead Cranes | |
| Quantity: no. | |
| Make: | |
| Type: | |
| Rated Capacity: st | |
| Location(s): | |
| Quantity: no. | |
| Make: | |
| Type: | |
| Rated Capacity: st | |
| Location(s): | |
| Quantity: no. | |
| Make: | |
| Type: | |
| Rated Capacity: st | |
| Location(s): | |
| A.9.4 Air Hoist/Derrick Winches | |
| A.9.4.1 Rig Floor Winches (Non man-riding) | |
| Quantity: no. | 1 each / V - door |
| Make: | Ingersoll-Rand |
| Type: | FA5A - LMX1HE |
| Rated capacity: lbs | 5 st / 10,000 lbs |
| Wire diameter: in | 3/4" |
| Automatic brakes: yes/no | No |
| Overload protection: yes/no | No |
| Automatic spooling: yes/no | No |
| Quantity: no. | 1 each / aft |
| Make: | Ingersoll-Rand |
| Type: | FA5 |
| Rated capacity: st | 5.5st / 11000lbs |
| Wire diameter: in | 3/4" |
| Automatic brakes: yes/no | Yes |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | | DESCRIPTIONS |
|--|--------|------------------|
| Overload protection: | yes/no | No |
| Automatic spooling: | yes/no | No |
| A.9.4.2 Monkey Board Work Winch | | |
| Quantity: | no. | 1 ea |
| Make: | | Ingersoll-Rand |
| Type: | | BU7APTAB |
| Rated capacity: | lbs | 1250 @ 60 ft/min |
| Wire diameter: | in | 5/16" |
| Automatic brake: | yes/no | No |
| Overload protection: | yes/no | No |
| Quantity: | no. | |
| Make: | | |
| Type: | | |
| Rated capacity: | st | |
| Wire diameter: | in | |
| Automatic brakes: | yes/no | |
| Overload protection: | yes/no | |
| Automatic spooling: | yes/no | |
| A.9.4.3 Rig Floor "Man-Riding" Winch | | |
| Quantity: | no. | 2 |
| Make: | | Ingersoll-Rand |
| Type: | | FA150KGMR/01014 |
| Rated capacity: | lbs | 330 lbs / 150 kg |
| Wire diameter: | in | 10mm |
| Non-twisted wire: | yes/no | no |
| Automatic brakes: | yes/no | Yes |
| Overload protection: | yes/no | Yes |
| Automatic spooling: | yes/no | No |
| A.9.4.4 Utility Winch (i.e. Deck Winch) | | |
| Quantity: | no. | 2 |
| Make: | | Ingersoll-Rand |
| Type: | | ODR-100-A24 |
| Rated capacity: | lbs | 10000 lbs |
| Wire diameter: | in | 3/4" |
| Automatic brakes: | yes/no | No |
| Overload protection: | yes/no | No |
| Automatic spooling: | yes/no | No |
| Certified for man-riding: | yes/no | No |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|---|---------------------------|
| Locations: | Under cantilever for BOP |
| Quantity: no. | 1 (Man riding winch) |
| Make: | Ingersoll-Rand |
| Type: | FA150KGMR/01014 |
| Rated capacity: lbs | 330 lbs / 150 kg |
| Wire diameter: in | 10mm |
| Automatic brakes: yes/no | Yes |
| Overload protection: yes/no | Yes |
| Automatic spooling: yes/no | Yes |
| Certified for man-riding: yes/no | yes |
| Locations: | Under cantilever portside |
| Quantity: no. | 1 |
| Make: | Ingersoll-Rand |
| Type: | DDR60A20 |
| Rated capacity: st | 5000 lbs / 2.5 st |
| Wire diameter: in | 5/8" |
| Automatic brakes: yes/no | No |
| Overload protection: yes/no | No |
| Automatic spooling: yes/no | No |
| Certified for man-riding: yes/no | No |
| Locations: | Port Forward Bridle |
| A.9.4.5 BOP Hoists (see E.10.1) | |
| A.9.5 Transfer Baskets/Containers | |
| A.9.5.1 Personnel Transfer Baskets | 1 ea. Billy Pugh |
| A.9.5.2 Cargo Containers | |
| Quantity: no. | None |
| Make/type: | |
| Quantity: no. | No |
| Make/type: | |
| Quantity: no. | no |
| Make/type: | |
| Quantity: no. | No |
| Make/type: | |
| A.10 HELICOPTER LANDING DECK | |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|-------------------------------------|------------------------|
| A.11.3 Air Conditioning | |
| Make/type: | Carrier |
| Capacity (total system): | tons 40 Tons / R 407 C |
| Max. temperature rating: | F |
| Make/type: | Carrier |
| Capacity (total system): | tons R 22 / 62 tons |
| Max. temperature rating: | F |
| Make/type: | |
| Capacity (total system): | tons |
| Max. temperature rating: | F |
| A.11.4 Electric Welding Sets | |
| Quantity: | no. 2 |
| Current capacity: | amp 500 Amps |
| Make/model: | Miller / SRH 444 |
| Type (fixed/portable): | Fixed |
| Quantity: | no. 1 |
| Current capacity: | amp 400 amps |
| Make/model: | Lincoln / SAE 400 |
| Type (fixed/portable): | Fixed |
| Quantity: | no. |
| Current capacity: | amp |
| Make/model: | |
| Type (fixed/portable): | |
| A.11.5 High Pressure Cleaner | |
| Quantity: | no. |
| Make/type: | |
| Electric/pneumatic/diesel: | |
| Max delivered pressure: | psi |
| With steam: | yes/no |
| Quantity: | no. |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|---|---|
| Make/type: | |
| B.1 DERRICK AND SUBSTRUCTURE | |
| B.1.1 Derrick / Mast | |
| Make/type: | DRECO / 6211-D105 Bolted |
| Rated for wind speed | |
| With full set back: | knots 100 mph |
| With no set back: | knots 115 mph |
| Height: | ft 160 ft |
| Dimensions of base: | ft x ft 30ft x 30ft |
| Dimensions of crown: | ft x ft 18' 7" X 13' 10" |
| Gross nominal capacity: | kips 1,330 kips |
| Static hook load: | kips 1,000, kips |
| Maximum number of lines: | no. 12 |
| Ladders with safety cages and rests: | yes/no Yes |
| Platform for crown sheave access: | yes/no yes |
| Counter balance, system for rig tongs and pipe spinning tong: | yes/no yes |
| Lighting system explosion proof: | yes/no yes |
| B.1.2 Racking Platform | |
| Make/type: | Dreco |
| Total current simultaneous capacity - drill pipe: | 209 Stand / 5" OD Drill Pipe 8 Stand / 9-1/2" O.D. Drill collars |
| 5" DP: | ft 19,855 ft |
| 8" DC: | ft 760 ft |
| Total | 20,615 ft |
| Tubing belly board: | yes/no |
| B.1.3 Automated Pipe Handling | No |
| Make/type: | |
| Description: | |
| Make/type: | |
| Description: | |
| Make/type: | |
| Description: | |
| Make/type: | |
| Description: | |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|--|------------------------------|
| B.1.4 Casing Stabbing Board | |
| Make/type: | 1 DRECO/ Air Open |
| Adjustable from/to height above rotary: | ft/ft 17 ft / 48 ft |
| B.1.5 Substructure | |
| Make/type: | Dreco |
| Drill floor height (above main deck): | ft 31 ft and 2-3/4" |
| Length: | 42.7 ft |
| ft | |
| Width: | ft 48.5 ft |
| Setback capacity: | kips 500 kips |
| Simultaneous setback + hook load capacity: | kips 1500 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 Yes |
| Derrickman windbreaks: | yes/no No |
| Around process pits: | yes/no No |
| B.1.7 Derrick TV Camera System | |
| Camera located at: | Monkey Board / BOP |
| Make/type: | Electro-Flow |
| Zoom/Pan/Tilt-function: | yes/no Yes |
| Monitor located at: | Drillers Console |
| B.1.8 Mechanical Mouse Hole | |
| yes/no | Normal mouse hole. |
| B.2 DRAWWORKS AND ASSOCIATED EQUIPMENT | |
| B.2.1 Drawworks | |
| Make/type: | Continental Emsco C2-type II |
| Motors make/type: | EMD D79 DC motor |
| Quantity: | no. 2 |
| Rated input power: | hp 2000 hp |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|--|------------------------------|
| Drum size (diameter x length): | in x in 30" dia. x 28" long |
| Drum type (grooved/smooth) | Lebus (groove) |
| For drill line size: | in 1-3/8" |
| Brake type (disc/drum) | Drum |
| Maximum line pull 12 lines: | kips 1,025 |
| Maximum line pull 10 lines: | kips 898 |
| Maximum line pull 8 lines: | kips 746.4 |
| Makeup cathead type: | Emsco GB |
| Breakout cathead type: | Emsco GBH |
| Crown block safety devices: | Yes |
| Make/type: | Koomey 75-00020 |
| Make/type: | |
| Independent fresh water-cooling system for drawworks and electric brake: | yes/no Yes |
| Automatic driller: | yes/no No |
| Make/type: | |
| B.2.2 Auxiliary Brake | |
| Make: | Baylor |
| Model: | 7040 |
| Independent back-up system type: | Yes |
| B.2.3 Sand line | |
| Make: | Continental Emsco |
| Length capacity: | ft 22,000 ft. |
| Line size/type: | 9/16" |
| Breaking strength: | st |
| Safe working load: | st |
| B.2.4 Slick line Unit | |
| | 1 |
| Make/model: | Mathey / 21 ILM /10 hp motor |
| Wire length (nominal): | ft 15,000 ft |
| Wire size: | in 0.092" |
| Breaking strength: | lbs 9,000 lbs min. |
| Safe working load: | lbs 865 lbs |
| Depth counter: | yes/no yes |
| Pull indicator: | lbs. |
| B.3 DERRICK HOISTING EQUIPMENT | |
| B.3.1 Crown Block | |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|--------------------------------------|-------------------|
| Make/type: | DRECO / 6170-D247 |
| Rated capacity: | st 583 st |
| No. of sheaves: | no. 6+1 |
| Sheave diameter: | in 52" |
| Sheave grooved for line size: | in 1-3/8" |
| B.3.2 Traveling Block | |
| Make/type: | DRECO / RA-52-6 |
| Rated capacity: | st 500 st |
| No. of sheaves: | no. 6 |
| Sheave diameter: | in 52" |
| Sheave grooved for line size: | in 1-3/8" |
| B.3.3 Hook | |
| Make/type: | BJ/clevis |
| Rated capacity: | st 500T |
| Complete with spring assembly/hook | |
| Locking device: | yes/no No |
| B.3.4 Swivel | |
| Make/type: | National P 500 |
| Rated capacity; | st 500 |
| Test/working pressure: | psi/psi 5000psi |
| Gooseneck and wash pipe minimum ID: | in 3" |
| Left hand pin connection | |
| type: | |
| Access fitting for wireline entry on | |
| Top gooseneck: | yes/no yes |
| B.3.5 Drilling Line | |
| Diameter: | in 1-3/8" |
| Construction: | BRIDON |
| Length (original): | ft 6X19 EIPS IWRC |
| Drilling line reel: | |
| Drum cover: | yes/no Yes |
| Drilling line drum power driven: | yes/no No |
| Spare drilling line: | yes/no Yes |
| Location (rig, shore, etc.) | Rig |
| Roller guides: | yes/no Yes |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|--|-----------------------------|
| B.3.6 Dead Line Anchor | |
| Make/type: | National EB |
| Weight sensor: | yes/no Yes |
| Deadline dampener: | yes/no No |
| B.3.7 Block Guidance System | |
| Make | |
| B.4 ROTATING SYSTEM | |
| B.4.1 Rotating Table | |
| Make/type: | Continental Emsco/ T3750 |
| Maximum opening: | in 37 ½" |
| Rated capacity: | st 650 T |
| Two speed gearbox: | yes/no Yes |
| Emergency chain drive: | yes/no No |
| Driven by an independent electric motor: | yes/no Yes |
| Electric motor make/type: | EMD D79 |
| Output power: | hp 750 hp |
| Maximum continuous torque: | ft/lbs |
| Drip pan/mud collection system: | yes |
| system: | yes/no |
| B.4.2 Master Bushings | |
| Make/type: | Varco/ MPCH |
| Insert bowls: | API # 1,2,3 |
| B.4.3 Kelly Bushing | |
| Make/type: | |
| Lock down assembly: | yes/no |
| B.4.4 Top Drive | |
| Make: | Varco TDS3 |
| Type (electric/hydraulic): | Electric |
| Rated capacity: | st 770,000 lbs/ 385 st |
| Test/working pressure: | psi/psi 5000 psi |
| Output power: | hp 1100 HP DC Motor EMD M89 |
| Maximum continuous torque: | ft-lbs 31,000 ft/lbs |
| ft-lbs | |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | | DESCRIPTIONS |
|---|--------|----------------------------|
| Two-speed gear box | yes/no | No |
| Maximum rotary speed: | rpm | 209 rpm |
| Remote operated Kelly cock: | yes/no | Yes |
| Cooling system type: | | Local Blower (15 HP motor) |
| Upper inside BOP (see also D.1.15) | | Yes |
| Quantity: | no. | 1 |
| Make/type: | | Hydril 5-1/4 dual crank |
| Working pressure: | psi | 10,000 psi |
| Max. OD body: | in | 7.70" |
| Max. ID body: | in | 3-1/16" |
| Connection type (box): | | 6 5/8 Reg RH |
| Connection type (pin): | | 6 5/8 |
| B.4.4.1 Top Drive Makeup / Breakout System | | Yes |
| Make/type: | | Varco/ Pipe Handler |
| Model: | | PH 60 |
| Max. makeup torque: | ft/lbs | 60,000 |
| Max. break out torque: | ft/lbs | 60,000 |
| Raised backup system: | yes/no | No |
| Make/type: | | Na |
| Working height (range): | ft/ft | Na |
| C. POWER SUPPLY SYSTEMS | | |
| C.1 RIG POWER PLANT | | |
| C.1.1 Diesel Engines | | |
| Quantity: | no. | 4 each |
| Make/type: | | Caterpillar D399 |
| Maximum continuous power: | hp | 1214 hp |
| At rotation speed of: | rpm | 1200 rpm |
| Equipped with spark arrestors: | yes/no | yes |
| Mufflers installed: | yes/no | no |
| Quantity: | no. | |
| Make/type: | | |
| Maximum continuous power: | hp | |
| At rotation speed of: | rpm | |
| Equipped with spark arrestors: | yes/no | |
| Mufflers installed: | yes/no | |
| Quantity: | no. | |
| Make/type: | | |

RIG AND EQUIPMENT SPECIFICATIONS

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

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|--|--------------------------------|
| Continuous power: hp | 125 hp |
| Quantity: no. | |
| Make: | |
| Model: | |
| Rated capacity: ft3/min | |
| Working pressure: psi | |
| Prime mover (electric/diesel): | |
| Continuous power: hp | |
| Air dryers: | |
| Quantity: no. | 1 |
| Make: | Quincy 1220 QDTH |
| Rated capacity: ft3/min | 1000 cfm |
| Air compressors - Low Pressure (bulk air): | NA |
| Quantity: no. | |
| Make: | |
| Model: | |
| Rated capacity: ft3/min | |
| Working pressure: psi | |
| Prime mover (electric/diesel): | |
| Continuous power: hp | |
| Air dryers: | NA |
| Quantity: no. | |
| Make: | |
| Rated capacity: ft3/min | |
| C.1.8 Air Receivers | |
| Volume (total): ft3 | 214 cu.ft. |
| Pressure: psi | 120 |
| Location: | Engine room |
| Volume (total): ft3 | 214 cu. Ft. |
| Pressure: psi | 120 |
| Location: | Under Cantilever and Rig floor |
| Volume (total): ft3 | |
| Pressure: psi | |
| Location: | |
| C.2 EMERGENCY GENERATOR | |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|---|------------------|
| C.2.1 Engine | |
| Quantity: no. | 1 ea |
| Make/type: | Caterpillar D399 |
| Maximum output: hp | 1214 hp |
| At rotation speed: rpm | 1200 rpm |
| Automatic starting: yes/no | Yes |
| Starting methods (air, hydraulic, battery): | Battery |
| Max. angle of operation: degrees | |
| C.2.2 AC - Generator | |
| Quantity: no. | 1 ea |
| Make/type: | Kato / 20971 |
| Maximum output: amps | 1445 amps |
| At rotation speed: rpm | 1200 rpm |
| Output volts: volts | 600 volts |
| Capable of back-feeding power to main bus: yes/no | Yes |
| D. DRILLSTRING EQUIPMENT | |
| D.1 TUBULARS | |
| D.1.1 Kelly's | |
| Quantity: no. | |
| Nominal size OD: in | |
| Shape type (hexagonal, square, triangular): | |
| Total / working length: ft / ft | |
| Connection type: | |
| Quantity: no. | |
| Nominal size OD: in | |
| Shape type (hexagonal, square, triangular): | |
| Total / working length: ft / ft | |
| Connection type: | |
| D.1.2 Kelly/TDS Saver Subs | |
| Quantity: no. | 1 ea |
| Nominal Kelly size: in | 5" |
| Connection type: | NC-50 |
| Protector: | |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|--|--------------|
| Quantity: no. | 1 ea |
| Nominal Kelly size: in | 3-1/2" |
| Connection type: | NC-38 |
| Protector: | |
| Quantity: no. | |
| Nominal Kelly size: in | |
| Connection type: | |
| Protector: | |
| D.1.3 Drill Pipe | |
| Drill pipe OD: in | |
| Grade: | |
| Total length: ft | |
| Range: | |
| Weight: lbs/ft | |
| Internally plastic coated: yes/no | |
| Tool joint OD/ID: in/in | |
| Tool joint pin length (original): in | |
| Tapered shoulder tool joints (box/pins): degree/degree | |
| Connection type: | |
| Hard facing: | |
| API classification: | |
| Thread protectors: yes/no | |
| Drill pipe OD: in | |
| Grade: | |
| Total length: ft | |
| Range: | |
| Weight: lbs/ft | |
| Internally plastic coated: yes/no | |
| Tool joint OD/ID: in/in | |
| Tool joint pin length (original): in | |
| Tapered shoulder tool joints (box/pins): degree/degree | |
| Connection type: | |
| Type of hardfacing: | |
| API classification: | |
| Thread protectors: yes/no | |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|------------------------------------|---------------|
| Drill pipe OD: | in |
| Grade: | |
| Total length: | ft |
| Range: | |
| Weight: | |
| lbs/ft | |
| Internally plastic coated: | yes/no |
| Tool joint OD/ID: | in/in |
| Tool joint pin length (original): | in |
| Tapered shoulder tool joints | |
| (box/pins): | degree/degree |
| Connection type: | |
| Hardfacing: | |
| API classification: | |
| Thread protectors: | yes/no |
| D.1.4 Drill Pipe Pup Joints | |
| Tool joint OD/ID: | in/in |
| Grade: | |
| Length: | ft |
| Quantity: | no. |
| Length: | ft |
| Quantity: | no. |
| Length: | ft |
| Quantity: | no. |
| Length: | ft |
| Quantity: | no. |
| Weight: | |
| lbs/ft | |
| Connection type: | |
| Internally plastic coated: | yes/no |
| API Classification: | |
| Thread protectors: | yes/no |
| Tool joint OD/ID: | in/in |
| Grade: | |
| Length: | ft |
| Quantity: | no. |
| Length: | ft |
| Quantity: | no. |
| Length: | ft |
| Quantity: | no. |
| Weight: | |
| lbs/ft | |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|---|--------------|
| Connection type: | |
| Internally plastic coated: | yes/no |
| API Classification: | |
| Thread protectors: | yes/no |
| Tool joint OD/ID: | in/in |
| Grade: | |
| Length: | ft |
| Quantity: | no. |
| Length: | ft |
| Quantity: | no. |
| Length: | ft |
| Quantity: | no. |
| Weight: | |
| lbs/ft | |
| Connection type: | |
| Internally plastic coated: | yes/no |
| Thread protectors: | yes/no |
| D.1.5 Drill Pipe Casing Protectors | |
| Initial stock: | no. |
| Make/type: | |
| OD: | in |
| Installation tools (manual/hydraulic/none): | |
| Initial Stock: | no. |
| Make/type: | |
| OD: | in |
| Installation tools (manual/hydraulic/none): | |
| D.1.6 Heavy Weight Drill Pipe | |
| Quantity: | no. |
| Nominal size OD: | in |
| Weight: | |
| lbs/ft | |
| Range: | |
| Tool joint OD / ID: | in/in |
| Type of hardfacing: | |
| Internally plastic coated: | yes/no |
| Connection type: | |
| Thread protectors: | yes/no |
| Quantity: | no. |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|-----------------------------------|--------------|
| Nominal size OD: in | |
| Weight: lbs/ft | |
| Range: | |
| Tool joint OD / ID: in/in | |
| Type of hardfacing: | |
| Internally plastic coated: yes/no | |
| Connection type: | |
| Thread protectors: yes/no | |
| D.1.7 Drill Collars | |
| Quantity: no. | |
| OD body: in | |
| ID body: in | |
| Nominal length of each joint: ft | |
| Drill collar body (slick/spiral): | |
| Recess for "zip" elevator: yes/no | |
| Recess for slips: yes/no | |
| Stress relief pin groove: yes/no | |
| Boreback on box: yes/no | |
| Connection type: | |
| Quantity: no. | |
| OD body: in | |
| ID body: in | |
| Nominal length of each joint: ft | |
| Drill collar body (slick/spiral): | |
| Recess for "zip" elevator: yes/no | |
| Recess for slips: yes/no | |
| Stress relief pin groove: yes/no | |
| Boreback on box: yes/no | |
| Connection type: | |
| Quantity: no. | |
| OD body: in | |
| ID body: in | |
| Nominal length of each joint: ft | |
| Drill collar body (slick/spiral): | |
| Recess for "zip" elevator: yes/no | |
| Recess for slips: yes/no | |
| Stress relief pin groove: yes/no | |
| Boreback on box: yes/no | |
| Connection type: | |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|--|--------------|
| Quantity: no. OD body: in ID body: in Nominal length of each joint: ft Drill collar body (slick/spiral): Recess for "zip" elevator: yes/no Recess for slips: yes/no Stress relief pin groove: yes/no Boreback on box: yes/no Connection type: | |
| D1.8 Short Drill Collars | |
| Quantity: no. OD body: in ID body: in Nominal length of each joint: ft Stress relief pin groove: yes/no Boreback on box: yes/no Connection type: | |
| Quantity: no. OD body: in ID body: in Nominal length of each joint: ft Stress relief pin groove: yes/no Boreback on box: yes/no Connection type: | |
| Quantity: no. OD body: in ID body: in Nominal length of each joint: ft Stress relief pin groove: yes/no Boreback on box: yes/no Connection type: | |
| Quantity: no. OD body: in ID body: in Nominal length of each joint: ft Stress relief pin groove: yes/no Boreback on box: yes/no Connection type: | |

RIG AND EQUIPMENT SPECIFICATIONS

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

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|--|--------------|
| Type of blade hardfacing: | |
| OD body or fishing neck: in | |
| ID body: in | |
| Connection type: | |
| Float valve receptacle: yes/no | |
| Hole size: in | |
| Quantity: no. | |
| Make: | |
| OD blades: in | |
| Type blades (straight/spiral/welded/integral/sleeve): | |
| Type of blade hardfacing: | |
| OD body or fishing neck: in | |
| ID body: in | |
| Connection type: | |
| Float valve receptacle: yes/no | |
| Hole size: in | |
| Quantity: no. | |
| Make: | |
| OD blades: in | |
| Type blades (straight/spiral/welded/integral/sleeve): | |
| Type of blade hardfacing: | |
| OD body or fishing neck: in | |
| ID body: in | |
| Connection type: | |
| Float valve receptacle: yes/no | |
| D.1.12 Roller Reamers | |
| Hole size: in | |
| Quantity: no. | No |
| Make: | |
| OD body: in | |
| ID body: in | |
| OD fishing neck: in | |
| Cutters supplied sets: no. | |
| Cutters, type: | |
| Connection, type: | |
| Hole size: in | |
| Quantity: no. | |
| Make: | |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|---------------------------------------|--------------|
| OD body: in | |
| ID body: in | |
| OD fishing neck: in | |
| Cutters, supplied sets: no. | |
| Cutters, type: | |
| Connection, type: | |
| Hole size: in | |
| Quantity: no. | |
| Make: | |
| OD body: in | |
| ID body: in | |
| OD fishing neck: in | |
| Cutters, supplied sets: no. | |
| Cutters, type: | |
| Connection, type: | |
| D.1.13 Shock Absorbers | |
| Quantity: no. | No |
| Make/type: | |
| OD body: in | |
| ID body: in | |
| OD fishing neck: in | |
| Connection type: | |
| Quantity: no. | |
| Make/type: | |
| OD body: in | |
| ID body: in | |
| OD fishing neck: in | |
| Connection type: | |
| D.1.14 Drilling Jars | |
| Quantity: no. | No |
| Make: | |
| Type (mechanical/hydraulic; up/down): | |
| OD body: in | |
| Min. ID body: in | |
| OD fishing neck: in | |
| Stroke: in | |
| Connection type: | |
| Quantity: no. | |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|---|--------------|
| Make: Type (mechanical/hydraulic; up/down): OD body: in Min. ID body: in OD fishing neck: in Stroke: in Connection type: | |
| Quantity: no. Make: Type (mechanical/hydraulic; up/down): OD body: in Min. ID body: in OD fishing neck: in Stroke: in Connection type: | |
| D.1.15 Inside BOP Valve (see also B.4.4) | |
| Quantity: no. Make: OD: in Min. ID: in Connection type: Working pressure: psi | |
| Quantity: no. Make: OD: in Min. ID: in Connection type: Working pressure: psi | |
| D.1.16 Fast Shut-Off Coupling | |
| Make/type: Quantity: no. Size tool joint to fit: | |
| Make/type: Quantity: no. Size tool joint to fit: | |
| D.1.17 Circulation Head | |

RIG AND EQUIPMENT SPECIFICATIONS

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

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|---|------------------|
| Make/type: | Hydril / L-I BOP |
| Working pressure: psi | 10,000 psi |
| Max. OD body: in | 5" |
| Min. ID body: in | 2-1/16" |
| Connection type: | 6-5/8 Reg |
| Used as full open safety valve: yes/no | Yes |
| | |
| D.1.19 Circulation Subs | |
| Quantity: no. | |
| Make/type: | |
| OD body: in | |
| Ball size: in | |
| Dressing kits: no. | |
| Connection type: | |
| Quantity: no. | |
| Make/type: | |
| OD body: in | |
| Ball size: in | |
| Dressing kits: no. | |
| Connection type: | |
| | |
| D.1.20 Cup Type Testers | |
| Quantity: no. | 1 ea |
| Make: | CIW Type F |
| Size: in | 13-3/8" |
| test cup for casing weight: lb/ft | 68 to 72 |
| test cup for casing weight: lb/ft | |
| test cup for casing weight: lb/ft | |
| Connection type: | |
| Quantity: no. | 1 ea |
| Make: | CIW type F |
| Size: in | 9-5/8" |
| test cup for casing weight: lb/ft | 47 to 53 |
| test cup for casing weight: lb/ft | |
| test cup for casing weight: lb/ft | |
| Connection type: | |
| Quantity: no. | |
| Make: | |
| Size: in | |
| test cup for casing weight: lb/ft | |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|---|--------------|
| test cup for casing weight: lb/ft | |
| test cup for casing weight: lb/ft | |
| Connection type: | |
| D.1.21 Plug Type Testers | |
| Quantity: no. | No |
| Make: | |
| Size test plugs: in | |
| Connection type: | |
| Quantity: no. | |
| Make: | |
| Size test plugs: in | |
| Connection type: | |
| Quantity: no. | |
| Make: | |
| Size test plugs: in | |
| Connection type: | |
| D.1.22 Drop-In Valves | |
| Quantity: no. | |
| For nom. OD drillpipe: in | |
| Make/type: | |
| Max. OD of dart.: in | |
| Quantity: no. | |
| For nom. OD drillpipe: in | |
| Make/type: | |
| Max. OD of dart.: in | |
| Quantity: no. | |
| For nom. OD drillpipe: in | |
| Make/type: | |
| Max. OD of dart.: in | |
| D.1.23 Near Bit - Subs (Box-Box) | |
| Quantity: no. | |
| OD size: in | |
| ID size: in | |
| Top connection type: | |
| Bottom connection type: | |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|------------------------|--------------|
| Bored for float valve: | yes/no |
| Float size: | in |
| Quantity: | no. |
| OD size: | in |
| ID size: | in |
| Top connection: | |
| Bottom connection: | |
| Bored for float valve: | yes/no |
| Float size: | in |
| Quantity: | no. |
| OD size: | in |
| ID size: | in |
| Top connection: | |
| Bottom connection: | |
| Bored for float valve: | yes/no |
| Float size: | in |
| Quantity: | no. |
| OD size: | in |
| ID size: | in |
| Top connection: | |
| Bottom connection: | |
| Bored for float valve: | yes/no |
| Float size: | in |
| Quantity: | no. |
| OD size: | in |
| ID size: | in |
| Top connection: | |
| Bottom connection: | |
| Bored for float valve: | yes/no |
| Float size: | in |
| Quantity: | no. |
| OD size: | in |
| ID size: | in |
| Top connection: | |
| Bottom connection: | |
| Bored for float valve: | yes/no |
| Float size: | in |
| Quantity: | no. |
| OD size: | in |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|-------------------------------|--------------|
| ID size: in | |
| Top connection type: | |
| Bottom connection type: | |
| Bored for float valve: yes/no | |
| Float size: in | |
| D.1.24 Crossover Subs | |
| Quantity: no. | |
| OD size (max/min): in/in | |
| ID size: in | |
| Top connection size: | |
| Type (pin/box): | |
| Bottom connection size: | |
| Type (pin/box): | |
| Quantity: no. | |
| OD size (max/min): in/in | |
| ID size: in | |
| Top connection size: | |
| Type (pin/box): | |
| Bottom connection size: | |
| Type (pin/box): | |
| Quantity: no. | |
| OD size (max/min): in | |
| Id Size: in | |
| Top connection size: | |
| Type (pin/box): | |
| Bottom connection size: | |
| Type (pin/box): | |
| Quantity: no. | |
| OD size (max/min): in | |
| Id Size: in | |
| Top connection size: | |
| Type (pin/box): | |
| Bottom connection size: | |
| Type (pin/box): | |
| Quantity: no. | |
| ID size: in | |
| OD size (max/min): in/in | |
| Top connection size: | |
| Type (pin/box): | |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|--|--------------|
| Bottom connection size: Type (pin/box): Quantity: no. OD size (max/min): in/in ID size: in Top connection size: Type (pin/box): Bottom connection size: Type (pin/box): Quantity: no. OD size (max/min): in/in ID size: in Top connection size: Type (pin/box): Bottom connection size: Type (pin/box): Quantity: no. OD size (max/min): in/in ID size: in Top connection size: Type (pin/box): Bottom connection size: Type (pin/box): Quantity: no. ID size: in OD size (max/min): in/in Top connection size: Type (pin/box): Bottom connection size: Type (pin/box): Quantity: no. | |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|--|--------------|
| ID size: in | |
| OD size (max/min): in/in | |
| Top connection size: | |
| Type (pin/box): | |
| Bottom connection size: | |
| Type (pin/box): | |
| Quantity: no. | |
| ID size: in | |
| OD size (max/min): in/in | |
| Top connection size: | |
| Type (pin/box): | |
| Bottom connection size: | |
| Type (pin/box): | |
| (Contractor to provide all cross overs for its drill string) | |
| D.1.25 Drilling Bumper Subs | |
| Quantity: no. | |
| Make: | |
| OD: in | |
| Stroke: in | |
| Connection type: | |
| Quantity: no. | |
| Make: | |
| OD: in | |
| Stroke: in | |
| Connection type: | |
| Quantity: no. | |
| Make: | |
| OD: in | |
| Stroke: in | |
| Connection type: | |
| Quantity: no. | |
| Make: | |
| OD: in | |
| Stroke: in | |
| Connection type: | |
| D.1.26 Hole Openers | |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|-------------------------------------|--------------|
| Quantity: no. | No |
| Make: | |
| OD: in | |
| Connection type: | |
| Quantity: no. | |
| Make: | |
| OD: in | |
| Connection type: | |
| D.1.27 Under Reamer | |
| Quantity: no. | No |
| Make/type: | |
| OD min/OD max: in/in | |
| Connection type: | |
| Quantity: no. | |
| Make/type: | |
| OD min/OD max: in/in | |
| Connection type: | |
| D.2 HANDLING TOOLS | |
| D.2.1 Drill Pipe Elevators | |
| Size: in | 5", 4-1/2 |
| Quantity: no. | 2 ea |
| Make: | Varco BJ |
| Model: | GG |
| Rated capacity: st | 350T |
| Size: in | 3 1/2" |
| Quantity: no. | 2 ea |
| Make: | Varco BJ |
| Model: | MGG |
| Rated capacity: st | 250T |
| Size: in | 2 7/8" |
| Quantity: no. | 1 ea |
| Make: | Varco BJ |
| Model: | MGG |
| Rated capacity: st | 150T |
| D.2.2 Drill Collar Elevators | |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|-------------------------------|-----------------------|
| Size: in | |
| Quantity: no. | |
| Make: | |
| Model: | |
| Rated capacity: st | |
| Size: in | |
| Quantity: no. | |
| Make: | |
| Model: | |
| Rated capacity: st | |
| Size: in | |
| Quantity: no. | |
| Make: | |
| Model: | |
| Rated capacity: st | |
| Size: in | |
| Quantity: no. | |
| Make: | |
| Model: | |
| Rated capacity: st | |
| | 3-1/2 |
| | 1 |
| | VARCO BJ |
| | MGG 250 |
| | 250T |
| D.2.3 Tubing Elevators | |
| Size (max/min): in/in | 3-1/2 / 2-7/8 / 2-3/8 |
| Quantity: no. | 1 EACH |
| Make: | Varco BJ |
| Model: | YT |
| Rated capacity: st | 75 |
| Size (max/min): in/in | 2-7/8 |
| Quantity: no. | 1 |
| Make: | Varco BJ |
| Model: | RG |
| Rated capacity: st | 150T |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|---|---------------------------------------|
| D.2.4 Drill Pipe Hand Slips | |
| Size: in | 4 - 5" |
| Quantity: no. | 2 |
| Make/type: | VARCO BJ/ SDXL |
| Size: in | 3 ½" |
| Quantity: no. | 2 |
| Make/type: | VARCO/ SDXL |
| Size: in | 2- 3/8", 3-1/2 |
| Quantity: no. | 4 ea |
| Make/type: | VARCO/ SDML |
| Size: in | 2-7/8", 3-1/2" 13-3/4" GRIP |
| Quantity: no. | 1 EACH |
| Make/type: | VARCO BJ / YT |
| D.2.5 Semi-Automatic DP Slips | |
| Size range (largest/smallest): in/in | |
| Quantity: no. | No |
| Make/type: | |
| D.2.6 Drill Collar Slips | |
| Size: in | 6-3/4 - 8-1/4, 8 - 9-1/2, 8-1/2 – 10" |
| Quantity: no. | 1 ea |
| Make/type: | VARCO BJ/ DCS-L |
| Size: in | 5-1/2"-7" 6-1/2" |
| Quantity: no. | 1 |
| Make/type: | VARCO BJ/ DCS-R |
| Size: in | 4"– 4-7/8" |
| Quantity: no. | 1 ea |
| Make/type: | VARCO BJ/ DCS-S |
| Size: in | 4-3/4", |
| Quantity: no. | 1 ea |
| Make/type: | VARCO BJ/ DCS-S |
| D.2.7 Drill Collar Safety Clamps | |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|---|-----------------|
| Quantity: no. | 1ea |
| Range: in/in | 9 ¼" – 10 ½" |
| Quantity: no. | 1 ea |
| Range: in/in | 2-3/8" 4-1/2" |
| Quantity: no. | |
| Range: in/in | |
| Quantity: no. | |
| Range: in/in | |
| D.2.8 Tubing Slips | |
| Size: in | 2-3/8" – 3-1/2" |
| Quantity: no. | 1 ea |
| Make/type: | Varco SDML |
| Size: in | |
| Quantity: no. | |
| Make/type: | |
| D.2.9 Tubing Spider | |
| Slip size (max/min): in/in | |
| Quantity: no. | No |
| Make: | |
| Adapter Plate: | |
| D.2.10 Drill Collar Lifting Subs | |
| Quantity: no. | 2 ea |
| For DC OD: in | 9-1/2" |
| Connection Type: | 7-5/8 Reg pin |
| Quantity: no. | 4 ea |
| For DC OD: in | 8-1/2" |
| Connection Type: | 6-5/8 Reg pin |
| Quantity: no. | 2 ea |
| For DC OD: in | 6-1/2" |
| Connection Type: | 4 ½" IF pin |
| Quantity: no. | |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|--|-----------------|
| For DC OD: in Connection Type: | |
| D.2.11 DC Lifting Plugs | |
| Quantity: no. For OD DC: in Connection Type: | No |
| Quantity: no. For OD DC: in Connection Type: | |
| Quantity: no. For OD DC: in Connection Type: | |
| Quantity: no. For OD DC: in Connection Type: | |
| Quantity: no. For OD DC: in Connection Type: | |
| D.2.12 Bit Breakers | |
| Quantity: no. For bit size: in | 1 ea 26 in |
| Quantity: no. For bit size: in | 1 17-1/2 |
| Quantity: no. For bit size: in | 1 ea 12-1/4" |
| Quantity: no. For bit size: in | 1 ea 8-1/2" |
| Quantity: no. For bit size: in | 1 6-3/4 |
| Quantity: no. For bit size: in | 1 6-1/2 |
| Quantity: no. For bit size: in | 1 6 |
| Quantity: no. | 1 |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|----------------------------------|----------------|
| For bit size: in | 5-7/8 |
| Quantity: | 1 |
| For bit size | 4-3/4 |
| D.2.13 Elevator Links | |
| Quantity of sets: no. | 1 set |
| Make/type: | BJ weldless |
| Size: in | 3 3/8 |
| Length: ft | 11 ft |
| Rated capacity: st | 350 T |
| Quantity of sets: no. | 1 set |
| Make/type: | BJ weldless |
| Size: in | 3 13/16 |
| Length: ft | 9 ft |
| Rated capacity: st | 350 T |
| Quantity of sets: no. | 1 set |
| Make/type: | BJ weldless |
| Size: in | 4 11/16" |
| Length: ft | 15 ft |
| Rated capacity: st | 500 T |
| Quantity of sets: no. | |
| Make/type: | |
| Size: in | |
| Length: ft | |
| Rated capacity: st | |
| D.2.14 Kelly Spinner | |
| Make/type: | |
| D.2.15 Drill pipe Spinner | |
| | 1 ea |
| Make/type: | Varco BJ/SSW30 |
| Size (max/min): in/in | 2 7/8" to 8" |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|--|---|
| D.2.16 Mud Saver Bucket | |
| Make: | 1ea |
| Size: in | 3 ½" - 5" |
| Make: | |
| Size: in | |
| D.2.17 Hydraulic Make-Up/Breakout Machine (e.g., EZ Torque) | |
| | 1 |
| Make/type: | Drilco- Hydraulic cathead |
| Maximum line pull: ft lbs | 150,000 ft/lbs |
| D.2.18 Rotary Rig Tongs | |
| Quantity (sets): no. | 1 |
| Make/type: | Varco BJ/ T-55 |
| Size range (max OD/min OD): in/in | 2-7/8 / 8-1/5 |
| Torque rating: ft-lbs | |
| Quantity (sets): no. | 1 |
| Make/type: | Varco BJ / HT 65 |
| Size range (max OD/min OD): in/in | 3-1/2" – 13" 65000 |
| Torque rating: ft/lbs | 1 Varco BJ/ HT 100 4 TO 9-3/4 100000 |
| D.2.19 Tubing Tongs (manual) | |
| Quantity (sets): no. | N/A |
| Make/type: | |
| Size range (max OD/min OD): in/in | |
| Torque rating: ft/lbs | |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|--|--------------|
| <p>D.2.20 Tubing Tong Power</p> <p>Quantity: no.</p> <p>Make/type:</p> <p>Size range (max OD/min OD): in/in</p> <p>Max output torque: ft/lbs</p> <p>Torque indicator: yes/no</p> <p>Back-up arm: yes/no</p> | |
| <p>D.2.21 Iron Roughneck</p> <p>Make/type:</p> <p>Size range (max OD/min OD): in/in</p> <p>Max. makeup torque ft/lbs</p> <p>Max. breakout torque ft/lbs</p> | |
| <p>D.3 FISHING EQUIPMENT</p> <p>To include all fishing tools for contractor provided tubular both from OD and ID.</p> | |
| <p>D.3.1 Overshots</p> <p>Quantity: no.</p> <p>Make/type:</p> <p>Overshot OD: in</p> <p>To catch size: in</p> <p>To catch size: in</p> <p>To catch size: in</p> <p>Overshot guide OD: in</p> <p>Extension sub length: in</p> <p>Lipped guide (oversize, regular):</p> <p>Grapples (spiral, basket, both):</p> <p>Pack offs: yes/no</p> <p>Top subs connection type:</p> | |
| <p>Quantity: no.</p> <p>Make/type:</p> <p>Overshot OD: in</p> <p>To catch size: in</p> <p>To catch size: in</p> <p>Overshot guide OD: in</p> <p>Extension sub length: in</p> <p>Lipped guide (oversize, regular):</p> <p>Grapples (spiral, basket, both):</p> | |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|-----------------------------------|--------------|
| Pack offs: yes/no | |
| Top sub connection type: | |
| Quantity: no. | |
| Make/type: | |
| Overshot OD: in | |
| To catch size: in | |
| To catch size: in | |
| To catch size: in | |
| Overshot guide OD: in | |
| Extension sub length: in | |
| Lipped guide (oversize, regular): | |
| Grapples (spiral, basket, both): | |
| Pack offs: yes/no | |
| Top sub connection type: | |
| Quantity: no. | |
| Make/type: | |
| Overshot OD: in | |
| To catch size: in | |
| To catch size: in | |
| To catch size: in | |
| Overshot guide OD: in | |
| Extension sub length: in | |
| Lipped guide (oversize, regular): | |
| Grapples (spiral, basket, both): | |
| Pack offs: yes/no | |
| Top sub connection type: | |
| Quantity: no. | |
| Make/type: | |
| Overshot OD: in | |
| To catch size: in | |
| To catch size: in | |
| To catch size: in | |
| Overshot guide OD: in | |
| Extension sub length: in | |
| Lipped guide (oversize, regular): | |
| Grapples (spiral, basket, both): | |
| Pack offs: yes/no | |
| Top sub connection type: | |
| Quantity: no. | |
| Make/type: | |
| Overshot OD: in | |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|------------------------------------|--------------|
| To catch size: in | |
| To catch size: in | |
| To catch size: in | |
| Overshot guide OD: in | |
| Extension sub length: in | |
| Lipped guide (oversize, regular): | |
| Grapples (spiral, basket, both): | |
| Pack offs: yes/no | |
| Top sub connection type: | |
| D.3.2 Hydraulic Fishing Jar | |
| Quantity: no. | |
| Make/type: | |
| OD body: in | |
| Min. ID: in | |
| Stroke: in | |
| Connection type: | |
| Repair kit: yes/no | |
| Quantity: no. | |
| Make/type: | |
| OD body: in | |
| Min. ID: in | |
| Stroke: in | |
| Connection type: | |
| Repair kit: yes/no | |
| Quantity: no. | |
| Make/type: | |
| OD body: in | |
| Min. ID: in | |
| Stroke: in | |
| Connection type: | |
| Repair kit: yes/no | |
| D.3.3 Jar Intensifier | |
| Quantity: no. | No |
| Make/type: | |
| OD body: in | |
| Min. ID: in | |
| Connection type: | |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS | |
|----------------------------------|--------------|----|
| Repair kit: | yes/no | |
| Quantity: | no. | |
| Make/type: | | |
| OD body: | in | |
| Min. ID: | in | |
| Connection type: | | |
| Repair kit: | yes/no | |
| D.3.4 Surface Jar | | |
| Quantity: | no. | No |
| Make/type: | | |
| OD body: | in | |
| Stroke: | in | |
| Connection type: | | |
| Repair kit: | yes/no | |
| D.3.5 Fishing Bumper Subs | | |
| Quantity: | no. | |
| Make/type: | | |
| OD body: | in | |
| Min. ID: | in | |
| Stroke: | in | |
| Connection type: | | |
| Quantity: | no. | |
| Make/type: | | |
| OD body: | in | |
| Min. ID: | in | |
| Stroke: | in | |
| Connection type: | | |
| D.3.6 Safety Joints | | |
| Quantity: | no. | |
| Make/type: | | |
| OD body: | in | |
| Min. ID: | in | |
| Connection type: | | |
| Quantity: | no. | |
| Make/type: | | |
| OD body: | in | |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|---|--------------|
| Min. ID: in | |
| Connection type: | |
| D.3.7 Junk Baskets (Reverse Circulation) | |
| Quantity: no. | |
| Make/type: | |
| For hole size: in | |
| OD body: in | |
| Connection type: | |
| Inside magnet available: yes/no | |
| Mill shoes type (A, B, C): | |
| Quantity: no. | |
| Make/type: | |
| For hole size: in | |
| OD body: in | |
| Connection type: | |
| Inside magnet available: yes/no | |
| Mill shoes type (A, B, C): | |
| Quantity: no. | |
| Make/type: | |
| For hole size: in | |
| OD body: in | |
| Connection type: | |
| Inside magnet available: yes/no | |
| Mill shoes type (A, B, C): yes/no | |
| D.3.8 Junk Subs | |
| Quantity: no. | |
| Make/type: | |
| For hole size: in | |
| OD body: in | |
| Connection type: | |
| Quantity: no. | |
| Make/type: | |
| For hole size: in | |
| OD body: in | |
| Connection type: | |
| Quantity: no. | |
| Make/type: | |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|--|--------------|
| For hole size: in | |
| OD body: in | |
| Connection type: | |
| D.3.9 Flat Bottom Junk Mill | |
| Quantity: no. | |
| Make/type: | |
| OD flat mill: in | |
| Connection type: | |
| Quantity: no. | |
| Make/type: | |
| OD flat mill: in | |
| Connection type: | |
| Quantity: no. | |
| Make/type: | |
| OD flat mill: in | |
| Connection type: | |
| D.3.10 Magnet Fishing Tools | |
| Quantity: no. | |
| Make/type: | |
| OD body: in | |
| Connection type: | |
| Quantity: no. | |
| Make/type: | |
| OD body: in | |
| Connection type: | |
| Quantity: no. | |
| Make/type: | |
| OD body: in | |
| Connection type: | |
| Ditch Magnet In Flow Channel Yes/No | |
| D.3.11 Taper Taps | |
| Quantity: no. | |
| Make: | |
| Tap OD (max/min): in/in | |
| OD body: in | |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|---------------------------|--------------|
| Length overall: ft | |
| Connection type: | |
| Quantity: no. | |
| Make: | |
| Tap OD (max/min): in/in | |
| OD body: in | |
| Length overall: ft | |
| Connection type: | |
| Quantity: no. | |
| Make: | |
| Tap OD (max/min): in/in | |
| OD body: in | |
| Length overall: ft | |
| Connection type: | |
| D.3.12 Die Collars | |
| Quantity: no. | |
| Make/type: | |
| OD (Max/Min): in/in | |
| OD body: in | |
| Length: ft | |
| Connection type: | |
| Quantity: no. | |
| Make/type: | |
| OD (Max/Min): in/in | |
| OD body: in | |
| Length: ft | |
| Connection type: | |
| E. WELL CONTROL | |
| E.1 DIVERTER | |
| Fixed: | |
| yes/no | |
| Make/type: | |
| Maximum bore: in | |
| ID of insert packer: in | |
| Working pressure: psi | |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|-------------------------------------|---------------------------------|
| Annular: | no. |
| Make/type: | |
| Maximum bore: | in |
| ID of insert packer: | in |
| Working pressure: | psi |
| Bottom connection: | |
| Size: | in |
| Working pressure: | psi |
| Gasket type: | |
| Rams: | no. |
| Make/type: | |
| Ram packer type: | |
| Ram packer type: | |
| Max bore size: | |
| 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 Flow Lines | |
| Quantity: | no. |
| Nominal size of flow lines: | in |
| Running from Diverter to: | |
| Valve make/type: | |
| Quantity: | no. |
| Size: | in |
| Working pressure: | psi |
| Valve operator (air/hydraulic): | |
| Valve make/type: | |
| Quantity: | no. |
| Size: | in |
| Working pressure: | psi |
| Valve operator (air/hydraulic): | |
| System pressure rating: | psi |
| Flex hose in flow line: | yes/no |
| E.1.2 Diverter Control Panel | |
| Primary make/type: | |
| Location: | Main BOP Control Panel (koomey) |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|---|--|
| Remote make/type: Location: | Koomey Driller shelter |
| Remote make/type: Location: | Koomey AG7GM S/B Main Deck near accommodation |
| 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 |
| WP: | psi |
| Bottom connection: | |
| Top connection: | |
| Shear ram boosters: | yes/no |
| Quantity: | no. |
| Make/model: | |
| Type: (single/double/triple): | |
| Size: | in |
| Working pressure: | psi |
| Ram locks: | yes/no |
| Type (manual/hydraulic): | |
| H2S service: | yes/no |
| Side outlets: | no. |
| Size: | in |
| WP: | psi |
| Bottom connection: | |
| Top connection: | |
| Shear ram boosters: | yes/no |
| E.2.2 Available Rams (installed & spare) | |
| Quantity/type/size | no./type/in |
| Quantity/type/size | no./type/in |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|---|--------------|
| 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.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: | |
| 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.2.6 Choke Line Valves | |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|--|-----------------|
| Quantity: no. | |
| Make/type: | |
| Size: in | |
| Working pressure: psi | |
| Gasket type | |
| Hydraulic/manual: | |
| Quantity: no. | |
| Make/type: | |
| Size: in | |
| Working pressure: psi | |
| Gasket type | |
| Hydraulic/manual: | |
| E.3 HIGH PRESSURE BLOWOUT PREVENTERS | |
| All appropriate components H2S rated: yes/no | Yes |
| E.3.1 Ram Type Preventers | |
| Quantity: no. | 1 ea |
| Make/model: | AXON / Type 50 |
| Type (single/double/triple): | Single |
| Size: in | 13-5/8" |
| Working pressure: psi | 10,000 psi |
| Ram locks: yes/no | Yes |
| Type (manual/hydraulic): | Manual |
| H2S service: yes/no | Yes |
| Side outlets: no. | 2 |
| Size: in | 3-1/16 in |
| WP: psi | 10,000 psi |
| Bottom connection: | Flange – BX-159 |
| Top connection: | Flange – BX-159 |
| Shear ram boosters: yes/no | NONE |
| Quantity: no. | 1 ea |
| Make/model: | AXON / Type 50 |
| Type (single/double/triple): | Double |
| Size: in | 13-5/8" |
| Working pressure: psi | 10,000 psi |
| Ram locks: yes/no | Yes |
| Type (manual/hydraulic): | Manual |
| H2S service: yes/no | yes |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|---|---------------------------------|
| Side outlets: no. | 4 ea. |
| Size: in | 4-1/16" |
| WP: psi | 10,000 psi |
| Bottom connection: | Flange – BX-159 |
| Top connection: | Flange – BX-159 |
| Shear ram boosters: yes/no | yes |
| E.3.2 Available Rams (installed & spare) | |
| 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 | |
| Quantity/type/size: no./type/in | |
| Quantity/type/size: no./type/in | |
| E.3.3 BOP Ram Configuration (normal) | |
| Upper: | |
| Upper middle: | |
| Middle: | |
| Middle lower: | |
| Lower: | |
| E.3.4 Annular Preventer | |
| Quantity: no. | 1 ea |
| Make/type: | SBOP ASSY 13-5M SXF-10M CRA T20 |
| Size: in | 13-5/8" |
| Working pressure: psi | 5000 psi |
| Bottom connection: | Flanged BX-159 |
| Top connection: | Flanged BX-160 |
| Quantity: no. | |
| Make/type: | |
| Size: in | |
| Working pressure: psi | |
| Bottom connection: | |
| Top connection: | |
| E.3.5 Kill Line Valves | |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|--------------------------------------|--------------|
| 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: | |
| 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: | |
| 1 | |
| Make/type: | |
| Size: in | |
| Working pressure: psi | |
| Gasket type: | |
| Hydraulic/manual: | |
| E.4 OTHER BLOWOUT PREVENTERS | |
| All appropriate components H2S rated | yes/no |
| E.4.1 Ram Type Preventers | |
| Quantity: no. | |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|---|--------------|
| Make/model: | |
| Type (single/double/triple): | |
| Size: | in |
| Working pressure | psi |
| Ram locks: | yes/no |
| Type (manual/hydraulic): | |
| H2S service: | yes/no |
| Side outlets: | no. |
| Size: | in |
| WP: psi | |
| Bottom connection: | |
| Top connection: | |
| Shear ram boosters: | yes/no |
| Quantity: | no. |
| Make/model: | |
| Type (single/double/triple): | |
| Size: | in |
| Working pressure | psi |
| Ram locks: | yes/no |
| Type (manual/hydraulic): | |
| H2S service: | yes/no |
| Side outlets: | no. |
| Size: | in |
| WP: psi | |
| Bottom connection: | |
| Top connection: | |
| Shear ram boosters: | yes/no |
| E.4.2 Available Rams (installed & spare) | |
| 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 |
| Quantity/type/size: | no./type/in |
| Quantity/type/size: | no./type/in |
| E.4.3 BOP Ram Configuration (normal) | |
| Upper: | |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|--|--------------------------|
| Upper middle: Middle: Middle lower: Lower: | |
| E.4.6 Choke Line Valves | |
| Quantity: no. | |
| Make/type: | |
| Size: in | |
| Working pressure: psi | |
| Gasket type: | |
| Hydraulic/manual: | |
| Quantity: no. | |
| Make/type: | |
| Size: in | |
| Working pressure: psi | |
| Gasket type: | |
| Hydraulic/manual: | |
| E.5 BOP CONTROL SYSTEM | |
| E.5.1 Accumulator Unit | |
| Make/model: | Koomey/MB 160-20 Type 80 |
| Location: | S/B Main Deck Aft |
| Fluid reservoir capacity: gal | 480 |
| Oil/water mix. rate: gals/min | |
| Glycol reservoir capacity: gal | |
| Total accumulator capacity (w/o precharge): gal | 220 gal |
| System working pressure: psi | 3000 psi |
| Control manifold model: | UD 2RB-7AR |
| Regulator type: | Manual and Pneumatic |
| Total useful accumulator volume equals all preventer opening and closing volumes: yes/no | Yes |
| plus percent additional volume: % | 50 |
| E.5.2 Accumulator Hydraulic Pumps | |
| Electric Driven: | |
| Quantity: no. | 1 ea |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|--|-------------------------|
| Make/model: | Koomey triplex/UET-20B |
| Each driven by motor of power: hp | 20 hp |
| Flow rate of each pump: gals/min | 8.7 gals/min. |
| At operating pressure: psi | 3000 psi |
| Operable off emergency generator: yes/no | Yes |
| Air Driven: | |
| Quantity: no. | 2 ea |
| Make/model: | Koomey / Big Sixty 60:1 |
| Flow rate of each pump: gals/min | 6 gpm |
| AT operating pressure: psi | 100 psi |
| E.5.3 Primary Control Panel | |
| Control panel make/model: | Koomey |
| Location: | On S/B Main deck Aft. |
| Panel controls for the following functions: | |
| All annular BOP's: yes/no | Yes |
| All ram BOP's: yes/no | Yes |
| Lock for ram BOP's: yes/no | No |
| Diverter system: yes/no | Yes |
| Kill and choke line valves: yes/no | Yes |
| Low accumulator pressure warning: yes/no | No |
| Low reservoir level warning: yes/no | Yes |
| Low rig air pressure warning: yes/no | Yes |
| System pressure regulator: yes/no | Yes |
| Pressure regulator for annular: yes/no | Yes |
| Flow meter: yes/no | No |
| Quantity of pressure gauges: no. | 4 |
| Other control functions: yes/no | |
| E.5.4 Remote Control Panels | |
| Make/model: | KOOMEY / Pneumatic |
| Location: | Driller's Shelter |
| Location: | Main Deck S/B forward |
| Location: | |
| Ability to operate main closing unit: valves directly: yes/no | yes |
| System routing (direct or through panel): | |
| Remote control of - system pressure regulator: yes/no | yes |
| Remote control of - annular pressure regulator: yes/no | yes |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|--|----------------------|
| E.6 CHOKE MANIFOLD | |
| All appropriate components H2S rated yes/no | yes |
| E.6.1 Choke Manifold (for instrumentation, See H.3) | |
| Nominal size: in | 3 1/8 |
| Minimum ID: in | |
| Maximum WP: psi | 10,000 psi |
| Quantity of fixed chokes: no. | |
| Make/model: | |
| Size in | |
| Make/model: | |
| Size: in | |
| Quantity of adjustable chokes: no. | |
| Make/model: | |
| Size in | |
| Make/model: | |
| Size (ID): in | |
| Quantity | 5ea Valves 10K psi |
| Make/model: | Cameron / Manual |
| Size (ID): in | 2-1/16" |
| Make/model: | 2ea valves 10k psi |
| Size (ID): in | 4 1/16 |
| Quantity | 6 ea. Valves 10k psi |
| Make/model: | Cameron / Manual |
| Size (ID): in | 3-1/16 in |
| Quantity | 5ea valves 10 k psi |
| Make/model: | Cameron / Manual |
| Size (ID): in | 3 1/8 |
| Power choke remote control panel: yes/no | yes |
| Make/model: | Cameron super choke |
| Location: | Rig floor |
| Glycol injection: yes/no | No |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|--|-----------------------|
| E.7 FLEXIBLE CHOKE & KILL LINES (BOP to MANIFOLD) | |
| Quantity: no. | 2 ea Choke line |
| Make/type: | / rubber wire braided |
| ID: in | 3" |
| Working pressure: psi | 10,000psi |
| H2S service: yes/no | yes |
| Quantity: no. | 2 ea Kill line |
| Make/type: | / rubber wire braided |
| ID: in | 2" |
| Working pressure: psi | 10,000 psi |
| H2S service: yes/no | yes |
| E.8 FLEXIBLE BOP CONTROL HOSES | |
| Quantity: no. | 12 ea. |
| Make/type: | Armored steel |
| ID: in | 1 in |
| Working pressure: psi | 3,000 psi |
| Fire resistant: yes/no | Yes |
| Quantity: no. | |
| Make/type: | |
| ID: in | |
| Working pressure: psi | |
| Fire resistant: yes/no | |
| E.9 BOP TESTING EQUIPMENT | |
| E.9.1 Hydraulic BOP Test Pump | |
| Make/model: | CAD / 15K |
| Type: | Air operated |
| Pressure rating: psi | 15,000 psi |
| Chart recorder: yes/no | Yes |
| E.9.2 BOP Test Stump | |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|--|----------------------------|
| Size: in | NO |
| Size: in | |
| Size: in | |
| E.10 BOP HANDLING | Yes |
| E.10.1 BOP Hoist System | |
| Make/type: | Ingersoll-Rand/ Hercu-link |
| Quantity of hoists: no. | 2 ea |
| Number of lift point on BOP: no. | 2 |
| System safe working load (max BOP wt): st | 37.5 ton each unit |
| E.10.2 Work Platforms | |
| BOP work platform (adjustable/fixed/none): | Texas Deck |
| Conductor pipe platform: yes/no | None |
| E.10.3 Conductor Pipe Tensioning System | |
| Make/type: | |
| Tension capacity: st | |
| Number of lift points: no. | |
| Stroke: in | |
| F. MUD SYSTEM/BULK SYSTEM | |
| F.1 HIGH PRESSURE MUD SYSTEM | |
| System working pressure: psi | 5,000 |
| System test pressure: psi | 7,500 |
| F.1.1 Mud Pumps | |
| Quantity: no. | 2 ea |
| Make: | Continental Emsco |
| Model: | FB 1600 |
| Type: (Triplex/Duplex): | Triplex |
| Liner sizes available: in | 5-1/2", 6", 6-1/2", 7" |
| Mud pump drive motors/pump: no. | 2 |
| Motor type: | EMD D79 MB6 |
| Continuous power rating per motor: hp | 750 hp |
| Fluid end type: | |
| Maximum working pressure: psi | 5000 psi |
| Test pressure: psi | 7,500 psi. |

RIG AND EQUIPMENT SPECIFICATIONS

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

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|--|-------------------------------|
| Gel Tank Pumps | |
| Quantity: | no. |
| Make/model: | |
| Type/size: | |
| Output capacity: | gpm |
| Drive motor type: | |
| Power output: | hp |
| F.1.3 Booster / Charging Pump | |
| Quantity: | no. 2 ea |
| Make/Mode: | Halco |
| Type/Size | Centrifugal / 4X6X14 |
| Capacity (each): | gals/min 1200 |
| Drive motor type: | Electric |
| Power output: | hp 40 hp |
| F.1.4 Standpipe Manifold | |
| Quantity of standpipes: | no. 2 ea |
| Standpipe/ID: | in 4" ID / 3 "ID /2" ID |
| H-Type standpipe manifold: | yes/no yes |
| Kill line outlet: | yes/no yes |
| Fill-up line outlet: | yes/no yes |
| Bleed-off line outlet: | yes/no yes |
| F. 1.5 Rotary Hoses | |
| Quantity: | no. 2 ea. |
| Make/type: | Cooper States/Gates |
| ID x length: | in x ft 3 ½ in X 75 ft |
| Working pressure: | psi 5000psi W/Px 10000psi T/P |
| Snubbing lines: | yes/no yes |
| Quantity: | no. 2ea |
| Make/type: | Cooper States |
| ID x length: | in x ft 3 ½ inX65ft |
| Working pressure: | psi 5000psi W/Px 10000psi T/P |
| Snubbing lines: | yes/no Yes |
| F.1.6 Cementing Hose | |
| Quantity: | no. 2ea. |
| Type (armor sheath/flexible steel pipe): | Cooper States |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|---|-----------------------------|
| Length: ft | 65 ft |
| ID: in | 3" |
| Working pressure: psi | 7500 psi W/P x15,000 psiT/P |
| Quantity: no. | 1ea |
| Type (armor sheath/flexible steel pipe): | |
| Length: ft | 50ft |
| ID: in | 2 ½ in |
| Working pressure: psi | 10000psi |
| F.1.7 High Pressure Flexible Steel Pipe | |
| Make/type: | Anson |
| Integral connections/fittings (non-threaded): yes/no | yes |
| ID: in | 1 ¾" |
| Working pressure: psi | 10,000 psi |
| Section length: ft | 2 ea 6' |
| Quantity: no. | 6 ea 12' |
| Section length: ft | 2 ea 10' |
| Quantity: no. | |
| Sweep swivels, make/type: | 2" Anson |
| Nom. size ID: in | |
| Suitable for H2S service: yes/no | yes |
| F.2 LOW PRESSURE MUD SYSTEM | |
| F.2.1 Mud Processing Tank | |
| Total 252 bbl | |
| Shaker #1 tank, usable volume: bbl | 88 bbl |
| Shaker #2 tank, usable volume: bbl | 88 bbl |
| Agitated: yes/no | No |
| Shaker #3 tank, usable volume: bbl | |
| Agitated: yes/no | |
| Shaker #4 tank, usable volume: bbl | |
| Agitated: yes/no | |
| Shaker #5 tank, usable volume: bbl | |
| Agitated: yes/no | |
| Centrifuge tank, usable volume: bbl | |
| Agitated: yes/no | |
| Other tank, usable volume: bbl | |
| Agitated: yes/no | |
| Total usable capacity: | |
| F.2.2 Mud Tanks | |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|--------------------------|---------------|
| Quantity: | no. 4 |
| Total capacity (usable): | bbl 1,549 bbl |
| Usable capacity No. 1: | bbl 565 bbl |
| Type (active/reserve): | |
| Height: | ft 8 ft |
| Mixer: | Yes |
| yes/no | |
| Mud guns: | yes/no Yes |
| Usable capacity No. 2: | bbl 315 bbl |
| Type (active/reserve): | |
| Height: | ft 8 ft |
| Mixer: | Yes |
| yes/no | |
| Mud guns: | yes/no Yes |
| Usable capacity No. 3: | bbl 565 bbl |
| Type (active/reserve): | |
| Height: | ft 8 ft |
| Mixer: | Yes |
| yes/no | |
| Mud guns: | yes/no Yes |
| Usable capacity No. 4: | bbl 104 |
| Type (active/reserve): | |
| Height: | ft 8 ft |
| Mixer: | Yes |
| yes/no | |
| Mud guns: | yes/no Yes |
| Usable capacity No. 5: | bbl 104 |
| Type (active/reserve): | |
| Height: | ft |
| Mixer: | |
| yes/no | |
| Mud guns: | yes/no |
| Usable capacity No. 6: | bbl |
| Type (active/reserve): | |
| Height: | ft |
| Mixer: | |
| yes/no | |
| Mud guns: | yes/no |
| Usable capacity No. 7: | bbl |
| Type (active/reserve): | |
| Height: | ft |
| Mixer: | |
| yes/no | |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|--|----------------|
| Mud guns: yes/no | |
| Usable capacity No. 8: bbl | |
| Type (active/reserve): | |
| Height: ft | |
| Mixer: | |
| yes/no | |
| Mud guns: yes/no | |
| F.2.3 Pill/Slug Tank | |
| Capacity (usable): bbl | 104 bbl |
| Mud agitator: yes/no | Yes |
| Mud guns: yes/no | Yes |
| Capacity (usable): bbl | |
| Mud agitator: yes/no | |
| Mud guns: yes/no | |
| F.2.4 Trip/Stripping Tanks | |
| Capacity (usable): bbl | 72 bbl |
| Capacity/foot: bbl/ft | |
| Level indicator: yes/no | Yes |
| Electric pump make: | Mission |
| Model/type: | 3 x 2 x 7.5" |
| Rated capacity: hp | 10 hp 1735 rpm |
| Facility for casing fill-up: yes/no | Yes |
| Alarm and strip chart recorder: yes/no | Yes |
| Capacity (usable): bbl | |
| Capacity/foot: bbl/ft | |
| Level indicator: yes/no | |
| Electric pump make: | |
| Model/type: | |
| Rated capacity: hp | |
| Facility for casing fill-up: yes/no | |
| Alarm and strip chart recorder: yes/no | |
| F.2.5 Chemical Mixing Tank | |
| Capacity (usable): bbl | 0.84 |
| Chemical mixer type: | Manual |
| F.2.6 Shale Shakers | |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|--|--|
| Primary: Quantity: no. Make/model: Type: Nominal flow rate (total): bbl/min Quantity: no. Make/model: Type: Nominal flow rate (total): bbl/min | 3 each Swaco Single unit 1200 |
| Cascading: Quantity: no. Make/model: Type: Nominal flow rate (total): bbl/min Quantity: no. Make/model: Type: Nominal flow rate (total): bbl/min | |
| F.2.7 Desander | NO |
| Quantity: no. Make/model: Type: Number of cones x size: no. x in Centrifugal pump type: Centrifugal pump size: in x in Driven by electric motor of: hp Is pump dedicated to desander: yes/no Max. flow rate: bbl/min | |
| F.2.8 Desilter | No |
| Quantity: no. Make/model: Type: Number of cones x size: no. x in Centrifugal pump type: Centrifugal pump size: in x in Driven by electric motor of: hp Is pump dedicated to desilter: yes/no Max. flow rate: bbl/min | |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|---|-----------------------|
| F.2.9 Mud Cleaner | |
| Quantity: no. | NO |
| Make/model: | |
| Type: | |
| Nominal flow rate: bbl/min | |
| Number of cones: no. | |
| Size: in | |
| Feed pump make/model: | |
| Type/size: | |
| Capacity: gpm | |
| Drive motor hp: hp | |
| Is pump dedicated to mud cleaner: yes/no | |
| Quantity: no. | |
| Make/model: | |
| Type: | |
| Nominal flow rate: bbl/min | |
| Number of cones: no. | |
| Size: in | |
| Feed pump make/model: | |
| Type/size: | |
| Capacity: gpm | |
| Drive motor hp: hp | |
| Is pump dedicated to mud cleaner: yes/no | |
| F.2.10 Mud/Gas Separator (Poor Boy) | |
| Make/type: | Contech/ Baffle plate |
| Dimensions (height x OD): ft x in | 20ftx5ft |
| Gas discharge line ID: in | 8" |
| Gas discharge location, primary: | Top of derrick |
| Can discharge be tied into burner system:yes/no | |
| Vacuum breaker: yes/no | |
| Mud seal height: ft | |
| Pressure gauge: yes/no | |
| Make/type: | |
| Dimensions (height x OD): ft x in | |
| Gas discharge line ID: in | |
| Gas discharge location, primary: | |
| Can discharge be tied into burner system:yes/no | |
| Vacuum breaker: yes/no | |
| Mud seal height: ft | |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|---|-------------------------------|
| Pressure gauge: yes/no | |
| Calculated gas throughput: mmscf | |
| F.2.11 Degasser | |
| Make/type: | Contech/ vacuum |
| Nominal flow rate: bbl/min | 25 bbl |
| Feed pump make/model: | Mission / 6 X 5 |
| Type/size: | Centrifugal 6X5X14 |
| Capacity: gpm | 1200 gpm |
| Drive motor hp: hp | 100 |
| Is pump dedicated to degasser: yes/no | Yes |
| Vacuum pump make type: | Ingersoll-Rand/ reciprocating |
| Make/type: | |
| Nominal flow rate: bbl/min | |
| Feed pump make/model: | |
| Type/size: | |
| Capacity: gpm | |
| Drive motor hp: hp | |
| Is pump dedicated to degasser: yes/no | |
| Vacuum pump make type: | |
| F.2.12 Mud Agitators | |
| Quantity: no. | 4 ea |
| Make/model: | Brandt/ MA20 |
| Driven by motor of power: hp | 20HP |
| Located in tanks: | 1 & 3 |
| Quantity: no. | 1 ea |
| Make/model: | Brandt MA5 |
| Driven by motor of power: hp | 5HP |
| Located in tanks: | Slug pit |
| (see F.2.1 and F.2.2 for tank designations) | |
| Quantity: no. | 1 each |
| Make/model: | Brandt/ MA25 |
| Driven by motor of power: hp | 25 hp |
| Located in tanks: | 2 |
| (see F.2.1 and F.2.2 for tank designations) | |
| Quantity: no. | |
| Make/model: | |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|--|---------------------------|
| Quantity: no. | |
| Capacity of each silo: ft3 | |
| Locations: | |
| Type weight load cell: | |
| Manufacturer: | |
| Pressure rating: psi | |
| Relief valve(s) installed: yes/no | |
| F.3.2 Cement Silos | |
| Quantity: no. | 3 ea |
| Capacity of each silo: ft3 | 1333 ft3 (4000 ft3 total) |
| Locations: | Portside Main Deck |
| Type weight loadcell: | Yes |
| Manufacturer: | Martin decker |
| Pressure rating: psi | 40 PSI |
| Relief valve(s) installed: yes/no | YES |
| Quantity: no. | |
| Capacity of each silo: ft3 | |
| Locations: | |
| Type weight load cell: | |
| 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. | Meng Fatt |
| Capacity of each tank: ft3 | 1 ea |
| Type weight load cell: | 45 ft3. |
| Manufacturer: | Yes |
| Pressure rating: psi | Martin Decker |
| Relief valve(s) installed: yes/no | 40 psi |
| | Yes |
| F.3.4 Mud Hopper | |
| Quantity: no. | 3 ea. |
| Make/model: | Swaco SW800 |
| Feed pump make/model: | Halco |
| Type/size: | Centrifugal 6X8X14 |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|---|-------------------------|
| Capacity: bbl/min | 1200 GPM |
| Drive motor hp: hp | 75 hp |
| Is feed pump dedicated to mud hopper(s):yes/no | Yes |
| F.3.5 Shear Jet | |
| Quantity: no. | |
| Make/model: | |
| Feed pump make/model: | |
| Type/size: | |
| Capacity: bbl/min | |
| F.3.6 Surge Tank For Cement | |
| Quantity: no. | |
| Capacity of each tank: ft3 | |
| Type weight load cell: | |
| 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 | No |
| Air reduced from main air supply through Pressure regulators: yes/no | Yes |
| Separate volume tank and drier: yes/no | No |
| G. CASING/CEMENTING EQUIPMENT | |
| G.1 CASING EQUIPMENT | |
| G.1.1 Drive Hammer | |
| Make/type: | None |
| Minimum casing/conductor OD: in | |
| G.1.2 API Casing Drifts | |
| For casing OD, weight, quantity: in/lbs/ft/no. | 3 ea for 18 5/8" casing |
| For casing OD, weight, quantity: in/lbs/ft/no. | 2 ea for 13 3/8" casing |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|--|------------------------|
| For casing OD, weight, quantity: in/lbs/ft/no. | 4 ea for 9 5/8" casing |
| For casing OD, weight, quantity: in/lbs/ft/no. | 2 ea for 7" casing |
| For casing OD, weight, quantity: in/lbs/ft/no. | 1 ea 8" OD drift. |
| For casing OD, weight, quantity: in/lbs/ft/no. | |
| G.1.3 Clamp-On Casing Thread Protectors | |
| For casing OD, quantity: in/no. | NO |
| For casing OD, quantity: in/no. | Weatherford supply. |
| For casing OD, quantity: in/no. | |
| For casing OD, quantity: in/no. | |
| For casing OD, quantity: in/no. | |
| For casing OD, quantity: in/no. | |
| G.1.4 Side Door Casing Elevator | |
| Quantity: no. | 1 |
| For OD casing: in | 20" |
| Make/type: | Varco BJ / SLX |
| Capacity: st | 150 T |
| Quantity: no. | 1 ea |
| For OD casing: in | 13-3/8 in |
| Make/type: | Varco BJ / SLX |
| Capacity: st | 150T |
| Quantity: no. | 1 ea |
| For OD casing: in | 9-5/8 in |
| Make/type: | Varco BJ / SLX |
| Capacity: st | 150T |
| Quantity: no. | 1 ea |
| For OD casing: in | 7" |
| Make/type: | Varco BJ / SLX |
| Capacity: st | 150T |
| Quantity: no. | |
| For OD casing: in | |
| Make/type: | |
| Capacity: st | |
| Quantity: no. | |
| For OD casing: in | |
| Make/type: | |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|--|--------------|
| Capacity: st | |
| G.1.5 Single Joint Casing Elevators | |
| Quantity: no. | 1 ea. |
| For OD casing: in | 20" |
| Make/type: | Varco / SJ |
| Quantity: no. | 1 ea |
| For OD casing: in | 13-3/8 in |
| Make/type: | VARCO / SJ |
| Quantity: no. | 1 ea |
| For OD casing: in | 9-5/8 in |
| Make/type: | Varco / SJ |
| Quantity: no. | 1 ea |
| For OD casing: in | 7" |
| Make/type: | Varco / SJ |
| Quantity: no. | |
| For OD casing: in | |
| Make/type: | |
| Quantity: no. | |
| For OD casing: in | |
| Make/type: | |
| G.1.6 Slip Type Elevator/Spiders | |
| Quantity: no. | 1 |
| Make/type: | Varco |
| Pneumatic/manual: | Pneumatic |
| Capacity: st | 350 |
| Slips for OD casing sizes: in | 13-3/8" |
| Quantity: no. | |
| Make/type: | Varco 350T |
| Pneumatic/manual: | Pneumatic |
| Capacity: st | 350 |
| Slips for OD casing sizes: in | 9-5/8" |
| Quantity: no. | |
| Make/type: | Varco 350T |
| Pneumatic/manual: | Pneumatic |

RIG AND EQUIPMENT SPECIFICATIONS

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

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|--|------------------|
| Quantity (sets): no. | |
| Make/type: | |
| W/jaws for OD casing (max/min): in/in | |
| Quantity (sets): no. | |
| Make/type: | |
| W/jaws for OD casing (max/min): in/in | |
| Quantity (sets): no. | |
| Make/type: | |
| W/jaws for OD casing (max/min): in/in | |
| G.1.10 Power Casing Tongs | |
| Quantity: no. | |
| Make/type: | |
| W/jaws for OD casing (max/min): in/in | |
| Max output torque: ft-lbs | |
| Torque indicator: yes/no | |
| Back-up arm: yes/no | |
| Quantity: no. | |
| Make/type: | |
| W/jaws for OD casing (max/min): in/in | |
| Max output torque: ft-lbs | |
| Torque indicator: yes/no | |
| Back-up arm: yes/no | |
| G.1.11 Power Unit For Casing & Tubing Tongs | |
| Quantity: no. | 1 each |
| Make/type: | Weatherford lamb |
| Capacity (ea.): gpm | 25 gpm |
| Output pressure: psi | 3000 psi max |
| Dedicated unit: yes/no | yes |
| G.1.12 Casing Circulating Head (Swedge) | |
| For OD casing: psi | |
| Connection type: top/bottom | |
| For OD casing: psi | |
| Connection type: top/bottom | |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|---|--------------|
| For OD casing: psi Connection type: top/bottom | |
| For OD casing: psi Connection type: top/bottom | |
| G.1.13 Casing Spears (Internal) | |
| Quantity: no. Make/type: For OD casing: in For casing weight: lbs/ft Pack-off: yes/no | No |
| Quantity: no. Make/type: For OD casing: in For casing weight: lbs/ft Pack-off: yes/no | |
| Quantity: no. Make/type: For OD casing: in For casing weight: lbs/ft Pack-off: yes/no | |
| G.1.14 Casing Cutters (Internal) | |
| Quantity: no. Make/type: For OD casing (max/min): in/in | No |
| Quantity: no. Make/type: For OD casing (max/min): in/in | |
| Quantity: no. Make/type: For OD casing (max/min): in/in | |
| G.1.15 Crossover to Handle Casing with Drill Pipe | |
| Quantity: no. For OD casing: in | No |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|--|--------------|
| Casing connection type: Drill pipe connection type: Rated capacity: st Quantity: no. For OD casing: in Casing connection type: Drill pipe connection type: Rated capacity: st Quantity: no. For OD casing: in Casing connection type: Drill pipe connection type: Rated capacity: st | |
| G.1.16 Casing Scrapers Quantity: no. Make: For OD casing: in For casing weight: lbs/ft OD body: in Connection type: Blade type (roller/fixed) | No |
| Quantity: no. Make: For OD casing: in For casing weight: lbs/ft OD body: in Connection type: Blade type (roller/fixed) | |
| Make: For OD casing: in For casing weight: lbs/ft OD body: in Connection type: Blade type (roller/fixed) | |
| Make: For OD casing: in For casing weight: lbs/ft OD body: in | |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|---|--|
| Working length: ft | |
| Connection type: | |
| Cement head: yes/no | |
| Quantity: no. | |
| Nominal size OD: in | |
| Total length: ft | |
| Working length: ft | |
| Connection type: | |
| Cement head: yes/no | |
| G.2.5 Cementing Tubing | |
| Size: in | |
| Length (total): ft | |
| X-overs to drillpipe (specified in section D.1.3): yes/no | |
| H. INSTRUMENTATION/COMMUNICATION | |
| H.1 DRILLING INSTRUMENTATION AT DRILLER'S POSITION | |
| H.1.1. Weight Indicator | |
| Make/Type: | Yes |
| Sensor type: | Driller's Display MD Totco (Rig Sense) |
| H.1.2 Standpipe Pressure Gauges | |
| Quantity: no. | Yes |
| Make/type: | 1 each |
| Maximum pressure reading: psi | Driller's Display MD-Totco (Rig Sense) |
| | 5000 psi |
| Quantity: no. | 1 each |
| Make/type: | Martin Decker / analog |
| Maximum pressure reading: psi | 6000 psi |
| Quantity: no. | 1 |
| Make/type: | J-2 Transmitter |
| Maximum pressure reading: psi | 6000 psi |
| H.1.3 Choke Manifold Pressure Gauges | |
| | Yes |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|--|---|
| Quantity: no. | 1 |
| Make/type: | Driller's Display MD-Totco (Rig Sense) |
| Maximum pressure reading: psi | 10000 psi |
| Quantity: no. | 1 each |
| Make/type: | Cameron/ J2 transmitter |
| Maximum pressure reading: psi | 10000 psi |
| H.1.4 Rotary Instrumentation | |
| H.1.4.1 Tachometer | |
| Make/type: | Driller's Display MD-Totco (Rig Sense) |
| Maximum RPM: rpm | Yes |
| H.1.4.2 Torque Indicator | |
| Make/type: | Driller's Display MD-Totco (Rig Sense) |
| Maximum torque: ft-lbs | Yes |
| H.1.5 Top Drive Instrumentation | |
| H.1.5.1 Tachometer | |
| Make/type: | Driller's Display MD-Totco (Rig Sense) |
| Maximum RPM: rpm | Yes |
| H.1.5.2 Torque Indicator | |
| Make/type: | Driller's Display MD-Totco (Rig Sense) |
| Maximum torque: ft-lbs | Yes |
| H.1.6 Pump Stroke Counters | |
| Quantity: no. | 2 |
| Make/type: | 1 ea Driller's Display MD-Totco (Rig Sense) |
| | 1 ea. Electro Flow Stroke Counter |
| Stroke indicator and cumulative stroke counter for each pump: yes/no | Yes |
| H.1.7 Tong Torque Indicator | |
| Make/type | Driller's Display MD-Totco (Rig Sense) |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|---|--|
| Maximum torque: ft-lbs | |
| H.1.8 Pit Volume Totalizer | Yes |
| Make/model: | Driller's Display MD-Totco (Rig Sense) |
| Float in active mud tanks: yes/no | Yes (Ultra-sonic sensor) |
| Quantity per tank: no. | 1 |
| Floats in reserve mud tanks: yes/no | Yes (Ultra-sonic sensor) |
| Quantity per tank: no. | 1 |
| Floats in mud processing tanks: yes/no | Slug Pit |
| Quantity per tank: no. | 1 |
| Loss/Gain indicator: yes/no | Yes (Driller's Display MD-Totco (Rig Sense)) |
| Audio Alarm: yes/no | Yes |
| Visual Alarm: yes/no | Yes |
| H.1.9 Mud Flow Indicator | Yes |
| Make/model: | Driller's Display MD-Totco (Rig Sense) |
| High/low alarm: | |
| Audio Alarm: yes/no | Yes |
| Visual Alarm: yes/no | Yes |
| Sensor location: | Mud Return line (to Shale Shaker) |
| H.1.10 Trip Tank Indicator | Yes |
| Make/model: | Driller's Display MD-Totco (Rig Sense) |
| Chart recorder: yes/no | Yes |
| Alarm: yes/no | Yes |
| Make/model: | |
| Chart recorder: yes/no | |
| Alarm: yes/no | |
| H.1.11 Automatic Driller (see B.2.1) | No |
| H.1.12 Remote Choke Control Unit (see E.5) | Yes |
| H.1.13 Crown Clearance Indicator | |
| Make/type: yes/no | No |
| H.2 DRILLING PARAMETER RECORDER | Yes |
| | No |
| Quantity: no. | Driller's Display MD-Totco |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|--|--|
| 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: Parameter recorded: Parameter recorded: Parameter recorded: Parameter recorded: Parameter recorded: Parameter recorded: Parameter recorded: | |
| H.3 INSTRUMENTATION AT CHOKE MANIFOLD | |
| H.3.1 Standpipe Pressure Gauge (Drill pipe pressure gauge) | |
| Quantity: no. | Yes |
| Make/type: | 1 Driller's Display MD-Totco (Rig Sense) |
| Pressure range (maximum): psi | 5000psi |
| Quantity: no. | 1 |
| Make/type: | Martin Decker/ vernier |
| Pressure range (maximum): psi | 6000psi |
| Visible from choke operating position:yes/no | Yes |
| H.3.2 Choke Manifold Pressure Gauge (Casing pressure gauge) | |
| Quantity: no. | Yes |
| Make/type: | 1 Cameron/ JT transmitter |
| Pressure gauge: psi/psi | 10,000 psi |
| Quantity: no. | 1 each |
| Make/type: | Driller's Display MD-Totco (Rig Sense) |
| Pressure gauge: psi/psi | |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|---|------------------------|
| Quantity: no. | |
| Make/type: | |
| Pressure gauge: psi/psi | |
| H.4 INSTRUMENTATION AT STANDPIPE | |
| H.4.1 Standpipe Pressure Gauge | |
| Quantity: no. | 1 each |
| Make/type: | Martin Decker/ Vernier |
| Pressure gauge: psi/psi | 0 - 6000 psi |
| Quantity: no. | 1 each |
| Make/type: | 6000 psi |
| Pressure gauge: psi/psi | Choke panel |
| Quantity: no. | 1 each |
| Make/type: | Rig sense |
| Pressure gauge: psi/psi | Drillers display |
| Visible from driller's position: yes/no | Yes |
| Visible from choke operating system: yes/no | Yes |
| H.5 DEVIATION EQUIPMENT | |
| H.5.1 Deviation Recorder | |
| Quantity: no. | 1 |
| Make/type: | Martin Decker TOTCO |
| Deviation range: degree/degree | 0-8 |
| Quantity: no. | 1 |
| Make/type: | Martin Decker TOTCO |
| Deviation range: degree/degree | 0-16 |
| H.5.2 Slickline Unit (see B.2.4) | |
| | yes |
| H.6 RIG COMMUNICATION SYSTEMS | |
| H.6.1 Rig Telephone System | |
| No. of stations: no. | 35 |
| Make/type: | Panasonic |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|---|---|
| Explosion proof: yes/no | Mud Pit /shale shaker/ separator area/ rig floor |
| No. of stations: no. | |
| Make/type: | |
| Explosion proof: yes/no | |
| No. of stations: no. | |
| Make/type: | |
| Explosion proof: yes/no | |
| H.6.2 Public Address System | |
| Can be combined with H.6.1 above: yes/no | Yes |
| No. of stations: no. | 34 |
| Make/type: | Gaitronics |
| Explosion proof: yes/no | Mud Pit / Mud Pump Room/shale shaker/ rig floor |
| H.6.3 Drill Floor Talkback System | |
| No. of stations: no. | 2 |
| Location: | Monkey Board |
| Location: | |
| Location: | Drillers Console |
| Location: | |
| Make/type: | Atkinson Dynamics |
| Explosion-proof: yes/no | Yes |
| H.6.4 Hand Held Vhf Radios | |
| Quantity: no. | 10 |
| Quantity intrinsically safe: no. | 10 |
| H.6.5 Crane Communication System | |
| Quantity: no. | 1ea. Port side crane/ St.bd crane |
| Make/type: | Panasonic telephone |
| Explosion proof: yes/no | No |
| Part of rig telephone system (H.6.1): yes/no | Yes |
| Part of public address system (H.6.2): yes/no | Yes |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|--|--------------------------------------|
| Quantity: no. | 2 VHF radios (port and st.bd. crane) |
| Make/type: | I COM |
| Explosion proof: yes/no | No |
| H.7 ENVIRONMENTAL INSTRUMENTATION | |
| H.7.1. Temperature Indicators | |
| Air temperature (make/model): | Yes, VIASALA/WXT536 |
| Recorder: yes/no | NO |
| Sea water temperature (make/model):yes/no | |
| Recorder: | No |
| H.7.2 Barometric Pressure Indicator | |
| Make/model: | Yes, VIASALA/WXT536 |
| Recorder: yes/no | No |
| H.7.3 Humidity Sensing Indicator | |
| Make/model: | Yes, VIASALA/WXT536 |
| Recorder: yes/no | No |
| H.7.4 Wind Speed/Direction Meter | |
| Make/model: | Yes, VIASALA/WXT536 |
| Recorder: yes/no | No |
| H.7.5 Wave Profile Recorder | |
| Make/model: | No |
| Recorder: yes/no | |
| H.7.6 Current Indicator | |
| Make/model: | No |
| Located at: | |
| Recorder: yes/no | |
| H.7.7 Weather Facsimile | |
| | Yes |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|---|--------------------------------------|
| Make/model: Located at: Recorder: yes/no | Navtex Receiver JRC- NCR333 |
| H.8 NAVIGATION INSTRUMENTATION | |
| H.8.1 Gyro Compass | |
| | Yes, Koden Satellite compass |
| Make/model: Located at: | Furuno KGC-300 Barge Control Room |
| H.8.2 Depth Sounder | |
| | Yes Furuno FCV-588 |
| Make/model: Located at: Recorder: yes/no | Barge Control Room No |
| H.8.3 Radar | |
| | AIS R5 supreme |
| Quantity: no. Make/model: Located at: Bandwidth: cm | |
| H.9 EXTERNAL COMMUNICATIONS EQUIPMENT | |
| H.9.1 SSB Transceiver | |
| Location(s): Quantity: no. | Radio Room 1 |
| Make/model: Power: watts Frequency ranges (low/high): MHz/MHz (Synthesized crystal): | Furuno FS-2575C 4125 |
| Facsimile capable (see also H.9.9): yes/no Telex capable (see also H.9.10): yes/no | |
| Location(s): Quantity: no. Make/model: Power: watts Frequency ranges (low/high): MHz/MHz (Synthesized crystal): | |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|--|----------------------------------|
| Facsimile capable (see also H.9.9): yes/no Telex capable (see also H.9.10): yes/no | |
| H.9.2 E.P.I.R.B's | |
| Quantity: no. | 1 |
| Make/model: | JOTRON / TRON-40S |
| Location(s): | Emer Gen room Roof |
| Quantity: no. | |
| Make/model: | |
| Location(s): | |
| H.9.3 Marine VHF Radio | |
| Quantity: no. | 1ea |
| Make/model: | SAILOR / 7224 |
| Power: watt | 25 |
| Channels: | 55-2 channels |
| Location: | Radio room |
| Quantity: no. | |
| Make/model: | |
| Power: watt | |
| Channels: | |
| Location: | |
| Quantity: no. | |
| Make/model: | |
| Power: watt | |
| Channels: | |
| Location: | |
| H.9.4 Aircraft Radio Beacon Transmitter (NDB) | |
| Quantity: no. | 1 |
| Make/model: | Southern Avionics SA100 ac/dc |
| Power: watts | 200 cont. |
| H.9.5 Aeronautical VHF Transceiver | |
| Quantity: no. | 1ea. |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|--|--------------|
| Connected to: Make/model: Connected to: H.9.11 Scrambler Make/model: Connected to: Make/model: Connected to: H.9.12 Other Communication System Make/model: Connected to: Make/model: Connected to: | No |
| I. PRODUCTION TEST EQUIPMENT I.1 BURNERS Make/type: Quantity: no. Capacity: bbl/day Weight: st Water requirement at 100 psi: bbl/min | No |
| I.2 BURNER BOOMS Make/type: Quantity: no. Length: ft Horizontal: yes/no Maximum wind speed: knots Walkway and handrails: yes/no Burner platform size: ft x ft Burner mounting rotatable: yes/no | No |
| I.3 PIPING ON BURNER BOOMS | |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|---|-------------------------|
| <p>I.3.1 Oil Line</p> <p>ID: in Working pressure: psi Connection type at burner end: H2S: yes/no Pressure gauge connection at barge end: in</p> | No |
| <p>I.3.2 Gas Line</p> <p>ID: in Working pressure: psi Extended beyond burner by: ft Connection type at burner end: H2S: yes/no Pressure gauge connection at barge end: in</p> | No |
| <p>I.3.3 Water Line</p> <p>ID: in Working Pressure: psi Connection type at burner end: Pressure gauge connection at barge end: in</p> | No |
| <p>I.3.4 Air Line</p> <p>ID: in Working Pressure: psi Connection type at burner end: type Pressure gauge connection at barge end: in</p> | No |
| <p>I.3.5 Pilot Gas line</p> <p>ID: in Working Pressure: psi Connection type at burner end: type Pressure gauge connection at barge end: in</p> | No |
| <p>I.4 SPRINKLER SYSTEM</p> <p>System in place: yes/no Pump source:</p> | Yes Yes Sea water |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|--|-------------------------------|
| <p>I.5 FIXED PIPING FOR WELL TESTING</p> <p>I.5.1 Drill Floor to Separator Area</p> <p>Type (screwed/welded, both):</p> <p>Quantity: no.</p> <p>Size ID: in</p> <p>Working pressure: psi</p> <p>Connection on drill floor: type</p> <p>Connection at separator: type</p> <p>Number of valves/lines: no.</p> <p>Size of valves: in</p> <p>H2S: yes/no</p> <p>I.5.2 Separator Area to Burner Booms</p> <p>Service (oil/gas):</p> <p>Type (screwed/welded, both):</p> <p>Quantity: no.</p> <p>Size ID: in</p> <p>Working pressure: psi</p> <p>Connection at separator: type</p> <p>Connection at boom: type</p> <p>Number of valves/lines: no.</p> <p>Size of valves: in</p> <p>H2S: yes/no</p> <p>Valves installed near separator area for switching gas to either burner: yes/no</p> <p>Service (oil/gas):</p> <p>Type (screwed/welded, both):</p> <p>Quantity: no.</p> <p>Size ID: in</p> <p>Working pressure: psi</p> <p>Connection at separator: type</p> <p>Connection at boom: type</p> <p>Number of valves/lines: no.</p> <p>Size of valves: in</p> <p>H2S: yes/no</p> <p>Valves installed near separator area for switching gas to either burner: yes/no</p> <p>I.5.3 Water Lines to Burner Booms</p> <p>Type (screwed/welded/both):</p> | <p>No</p> <p>No</p> <p>No</p> |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|---|--------------|
| Quantity: no. | yes |
| 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 (screwed/welded/both): | |
| Quantity: no. | No |
| Size ID: in | |
| Working pressure: psi | |
| Non-return valves fitted: yes/no | |
| Air source: | |
| I.5.5 Oil Storage Tank To Offload | |
| Type (screwed / welded / both): | |
| Quantity: no. | No |
| Size ID: in | |
| Working pressure: psi | |
| Connection at separator area: type | |
| I.5.6 Separator to Vent Stack of Rig | |
| Type (screwed/welded, both): | |
| Quantity: no. | No |
| Size ID: in | |
| Working pressure: psi | |
| Connection type at separator area: type | |
| I.6 AUXILIARY POWER AVAILABILITY | |
| I.6.1 For Field Laboratory | |
| Quantity: no. | 1 |
| Volts: volts | 480 |
| Frequency: hz | 60 |
| Breaker: amp | 30 |
| I.6.2 For Crude Transfer Pump | |
| Quantity: no. | 1 |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|---|--------------|
| Volts: v | 480 |
| Frequency: hz | 60 |
| Breaker: amp | |
| I.6.3 For Electric Heaters | |
| Quantity: no. | |
| Volts: v | |
| Frequency: hz | |
| Breaker: amp | |
| J. WORKOVER TOOLS | |
| K. ACCOMMODATION | |
| K.1 OFFICES | |
| K.1.1 Company Representative's Office | |
| Quantity: no. | 1 |
| Number of combination office/ State rooms in above: no. | 1 |
| Complete with desk, filing cabinets(s) and other necessary furniture: yes/no | Yes |
| Quantity with unrestricted view to drill floor: no. | 1 |
| K.1.2 Contractor's Representative's Office | |
| Quantity: no. | 1 |
| Quantity: no. | 1 |
| Service company room | |
| Quantity: no. | 1 |
| Quantity with unrestricted view to drill floor: no. | 1 |
| | 1 |
| K.1.4 Radio Room | |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|---|-------------------------------------|
| Quantity: no. | 1 |
| K.1.5 Helicopter Ready Room | |
| Quantity: no. | Yes , 01 level recreation room |
| K.1.6 Hospital Room | |
| Number of beds/bunks: no. | 0 |
| Dangerous drugs locker: yes/no | Yes |
| K.2 LIVING QUARTERS | |
| K.2.1 Accommodations | |
| Total Beds: no. | 88 |
| No. of beds per room type (1,2,3, etc): no. | 2 |
| Number of rooms: no. | 2 (1 ea. Rig Manager, 1 ea. Co-man) |
| Toilets (private/shared/communal): | 1 Private |
| Showers (private/shared/communal): | 1 Private |
| No. of beds per room type (1,2,3, etc): no. | 4 |
| Number of rooms: no. | 17 |
| Toilets (private/shared/communal): | Shared |
| Showers (private/shared/communal): | Shared |
| No. of beds per room type (1,2,3, etc): no. | 2 |
| Number of rooms: no. | 8 |
| Toilets (private/shared/communal): | Shared |
| Showers (private/shared/communal): | Shared |
| No. of beds per room type (1,2,3, etc): no. | |
| Number of rooms: no. | |
| Toilets (private/shared/communal): | |
| Showers (private/shared/communal): | |
| No. of beds per room type (1,2,3, etc): no. | |
| Number of rooms: no. | |
| Toilets (private/shared/communal): | |
| Showers (private/shared/communal): | |
| No. of beds per room type (1,2,3, etc): no. | |
| Number of rooms: no. | |
| Toilets (private/shared/communal): | |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|---|------------------------|
| 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. | 2. |
| Main mess: no. | 1 Senior |
| Aux. mess: no. | 1 Junior |
| K.2.3 Mess Seating Capacity | |
| Quantity: no. | 22 Senior 22 Junior |
| K.2.5 Recreation Rooms | |
| Quantity: no. | 1 - Recreation Room |
| Recreation facilities | |
| TV: no. | 1 |
| VCR: no. | DVD players |
| Pool Table: no. | No |
| Ping Pong Table: no. | 0 |
| Computer: no. | 2 (0) |
| Workout/weight room: no. | 1 |
| Other: | |
| K.2.6 Other Rooms | |
| Change rooms: no. | 2 |
| Prayer room: no. | 1 |
| Cinema: no. | No |
| Other: | |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|--|---|
| L. SAFETY EQUIPMENT | |
| L.1 GENERAL SAFETY EQUIPMENT | |
| L.1.1 General Personnel Protective Gear | Yes |
| Safety glasses (contractor/everyone/not supplied): | Contractor |
| Safety hats (contractor/everyone/not supplied): | Contractor |
| Safety boots (contractor/everyone/not supplied): | Contractor |
| Safety clothing (contractor/everyone/not supplied): | Contractor |
| Ear protection (contractor/everyone/not supplied): | Contractor |
| Rubber gloves (contractor/everyone/not supplied): | Contractor |
| Rubber aprons (contractor/everyone/not supplied): | Contractor |
| Rubber gloves - elbow length (contractor/everyone not/supplied): | Contractor |
| Fullface visors (contractor/everyone/not supplied): | Contractor |
| Eye shields (contractor/everyone/not supplied): | Contractor |
| Dust masks (contractor/everyone/not supplied): | Contractor |
| Explosion proof hand torches (contractor/everyone/not supplied): | Contractor |
| Safety belts c/w lines: (contractor/everyone/not supplied): | Contractor |
| L.1.2.1 Eye Wash Stations | |
| Quantity - fixed: no. | 6 |
| Make/model: | HAWS 7260BT |
| Location(s): | Rig floor, shaker area, Port main deck, mixing room, pit room |
| Quantity - portable: no. | 1 |
| Make/model: | HAWS 7500 |
| Location(s): | Dowell unit |
| L.1.2.2 Safety Showers | |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|--|---|
| Quantity: no. | 5 |
| Make/model | HAWS 8300 |
| Location(s): | Rig floor, shaker area, Port main deck, mixing room, pit room |
| L.1.3 Derrick Safety Equipment | |
| Derrick escape no. | NO |
| Make/type: | |
| Geronimo line: yes/no | |
| Derrick safety belts: no. | |
| Make/type: | |
| Derrick safety belts: no. | |
| Make/type: | |
| L.1.4 Derrick Climbing Assistant | |
| Make/type: | LAD-SAF / CARABINERS |
| L.1.5 Fresh Air Blowers (Bug Blowers) | |
| Quantity: no. | 6 + 2(Portable) |
| Make/type: | Various |
| Located at: | Monkey Board, Rig Floor (2ea), Shale Shaker, Dowell Unit , Pipe Deck Portable units (Welding bench, Sack Room) |
| L.2 GAS/FIRE/SMOKE DETECTION | |
| L.2.1 H2S Monitoring System | |
| Make/type: | Detcon Model No. 610AFB |
| Sampling points at: | |
| Bell nipple: yes/no | Yes |
| Drill floor: yes/no | Yes |
| Shale shaker: yes/no | Yes |
| Mud tanks: yes/no | Yes |
| Ventilation system into living quarters:yes/no | Yes |
| Other: | Mud Pump Room |
| Alarms at: | |
| Driller's console (audible/visual/both): | Both |
| Engine room (audible/visual/both): | Both |
| Mud room (audible/visual/both): | Both |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|--|----------------------|
| Quantity: no. | 5 |
| Make/type: | BW Technologies |
| L.2.5 CO2 Gas Detectors (portable) | |
| Quantity: no. | 5 |
| Make/type: | BW Technologies |
| Stain tubes for CO2: measuring range | |
| from 1 to 20 percent: % | |
| from 5 to 60 percent: % | |
| L.2.6 O2 Meter (portable) | |
| Quantity: no. | 5 |
| Make/type: | BW Technologies |
| L.2.7 Fire/Smoke Detectors in Accommodation | |
| Make/type: | Thorn System 880 |
| Fire detection: yes/no | Yes |
| Smoke detection: yes/no | Yes |
| Central control panel: yes/no | Yes |
| Location: | Radio Room |
| Alarms: | Yes |
| no. | |
| Pull boxes: no. | |
| Mud room (audible/visual/both): | Both |
| Living quarters each level (audible/visual/both) | Audible |
| Central area structural level: | Audible |
| (audible/visual/both): | |
| Other: | |
| Tied to general alarm: yes/no | Yes |
| Central control panel: | Yes |
| Located at: | Rig Manager's Office |
| Local alarm (audible/visual/both): | Both |
| L.3 FIRE FIGHTING EQUIPMENT | |
| L.3.1 Fire Pumps | |
| Quantity: no. | 3 |
| Make/model: | Goulds / 3796 |
| Type: | Centrifugal |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|---|-----------------------------|
| Output (each): gals/min | 250 gpm each |
| Location: | Aux. pump room |
| Quantity: no. | |
| Make/model: | |
| Type: | |
| Output (each): gals/min | |
| Location: | |
| All off-take 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 | Yes |
| Quantity of hydrants: no. | 19 |
| Hose connections/hydrant: no. | 1-1/2", threaded. |
| Hose. max. diameter: in | 1-1/2" |
| Length: ft | 50 ft accomo., 75 ft m/deck |
| L.3.3 Portable Fire Extinguishers | |
| Quantity (total): no. | 25 |
| Type 1 - CO2 no./lbs | 24/11 lbs |
| no./lbs | 1/110 lbs |
| no./lbs | 1/66 lbs |
| no./lbs | |
| no./lbs | |
| Type 2 - Dry chemical no. | 39 |
| no./lbs | 33/11 lbs |
| no./lbs | 5/20 lbs |
| no./lbs | 1/125 lbs |
| Type 3 - Foam no. | 8 |
| no./lbs | 1/63 gal |
| | 7/2.5 gals |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|--|--|
| Water | 1/12 gals No |
| Halon | No |
| L.3.4 Fire Blankets | |
| Quantity: | 6 ea. |
| Location(s): | Senior and Junior Galley Welder's Bench, control room |
| L.3.5 Fixed Foam System | |
| Make/type: | NO |
| Quantity of foam concentrate stored: | gal |
| Foam type: | |
| Application rate: | gals/min |
| Foam nozzles: | no. |
| Located at: | |
| Located at: | |
| Located at: | |
| Automatically injected into fixed fire water system: | yes/no |
| Make/type: | |
| Quantity of foam concentrate stored: | gal |
| Foam type: | |
| Application rate: | U.S. gals/min |
| Foam nozzles: | no. |
| Located at: | |
| Located at: | |
| Located at: | |
| Automatically injected into fixed fire water system: | yes/no |
| L.3.6 Helideck Foam System | |
| Make/type: | ANSUL |
| Quantity of monitors: | 3 ea |
| Quantity of foam concentrated stored: | gal 200 gpm |
| Foam type: | AFFF |
| Application rate: | gals/min |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS | |
|----------------------------------|--------------|--------------------------------|
| Located at: | qty/loc | 2 Shale shaker |
| Located at: | qty/loc | 0 S/B Crane pedestal |
| Located at: | qty/loc | 1 Sack room |
| Located at: | qty/loc | 1 Mud Lab |
| Located at: | qty/loc | 1 Mechanic Workshop |
| Located at: | qty/loc | 3 Pump Room |
| Located at: | qty/loc | 2 Outside warehouse |
| Located at: | qty/loc | 2 Engine room |
| Located at: | qty/loc | 1 SCR room |
| Located at: | qty/loc | 4 outside co2 room |
| Located at: | qty/loc | 10 S/B lifeboat station locker |
| | | 9 port lifeboat station |
| Located at: | qty/loc | 2 Fire M/Box Port lifeboat |
| Located at: | qty/loc | 1 Control room |
| Located at: | qty/loc | 2 Rig Manager office |
| Located at: | qty/loc | 1 Client Office |
| Located at: | qty/loc | 0 E/Gen. room |
| | | radio room |
| | | 0 sts office |
| | | 1 service company office |
| Located at: | qty/loc | |
| Quantity: | no. | no |
| Make | | |
| Type (demand/positive pressure): | | |
| Cascade system quick connects: | yes/no | |
| Cylinder duration: | min | |
| Located at: | qty/loc | |
| Located at: | qty/loc | |
| Located at: | qty/loc | |
| Located at: | qty/loc | |
| Located at: | qty/loc | |
| Located at: | qty/loc | |
| Quantity: | no. | |
| Make | | |
| Type (demand/positive pressure): | | |
| Cascade system quick connects: | yes/no | |
| Cylinder duration: | min | |
| Located at: | qty/loc | |
| Located at: | qty/loc | |
| Located at: | qty/loc | |
| Located at: | qty/loc | |
| Located at: | qty/loc | |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|--|------------------------------|
| Located at: qty/loc | |
| L.4.2 Escape Sets | |
| Quantity: no. | 2 |
| Make | Scott |
| Type (demand/positive pressure): | Both |
| Cascade system quick connects: yes/no | Yes |
| Cylinder duration: min | 15 min |
| Located at: qty/loc | 2ea. confined space manifold |
| Located at: qty/loc | |
| Located at: qty/loc | |
| Quantity: no. | 2 |
| Make | Scott |
| Type (demand/positive pressure): | Demand |
| Cascade system quick connects: yes/no | Yes |
| Cylinder duration: min | 5 |
| Located at: qty/loc | 2 Monkey board |
| Located at: qty/loc | |
| L.4.3 Cascade Stations | |
| Quantity: no. | NO |
| Make/type: | |
| Manifold locations/outlets at location: | |
| Manifold locations/outlets at location: | |
| Manifold locations/outlets at location: | |
| Manifold locations/outlets at location: | |
| Manifold locations/outlets at location: | |
| Manifold locations/outlets at location: | |
| L.4.4 Breathing Air Recharge Compressor | |
| Quantity: no. | |
| Make/type: | |
| Compressed air storage capacity: ft3 | |
| Working pressure: psi | |
| Located at: | |
| Located at: | |
| Quantity: no. | |
| Make/type: | |
| Compressed air storage capacity: ft3 | |
| Working pressure: psi | |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|--|--|
| Quantity: no. | 1 |
| Type: | Scoop Stretcher |
| Located at: | Rig floor |
| Quantity: no. | 1 each |
| Type: | Basket stretcher and Spine board stretcher |
| Located at: | Emergency Gen. room |
| L.6 HELIDECK RESCUE EQUIPMENT | |
| Aircraft Axe: yes/no | Yes |
| Large fireman's rescue axe: yes/no | Yes |
| Crowbar: yes/no | Yes |
| Heavy duty hacksaw: yes/no | Yes |
| Spare blades: yes/no | Yes |
| Grapnel hook: yes/no | Yes |
| Length of wire rope attached: ft | 50 ft. |
| Quick release knife: yes/no | Yes |
| Bolt croppers: yes/no | Yes |
| Fireman's outfit: yes/no | Yes |
| CO2 Lance: yes/no | no |
| Other: Adjustable wrench | Yes |
| Other: Rescue Ladder | Yes |
| Other: Fire resistant Blanket | Yes |
| Other: portable safety lamp | yes |
| L.7 EMERGENCY WARNING ALARMS | |
| Approved system to give warning of different emergencies: yes/no | Yes |
| Activated from drill floor: yes/no | no |
| L.8 SURVIVAL EQUIPMENT | |
| L.8.1 Lifeboats | |
| Make/type: | WATERCRAFT/ 26TE |
| Quantity: no. | 1 |
| Capacity: person/craft | 44 person |
| Locations (frwd/aft/port/stbd): | Port. |
| Fire protection: yes/no | Yes |
| Radio/EPIRB (see section H.9): | Yes |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|---|--|
| Make/type: Quantity: no. Capacity: person/craft Locations (frwd/aft/port/stbd): Fire protection: yes/no Radio/EPIRB (see section H.9): | WATERCRAFT/ 26TE 1 44 person Starboard side Yes Yes |
| Make/type: Quantity: no. Capacity: person/craft Locations (frwd/aft/port/stbd): Fire protection: yes/no Radio/EPIRB (see section H.9): | |
| L.8.2 Liferafts | |
| Make/type: Quantity: no. Capacity: person/craft Davit launched: yes/no Locations (frwd/aft/port/stbd): | Viking Life / Inflatable 4 25 person No Port side |
| Make/type: Quantity: no. Capacity: person/craft Davit launched: yes/no Locations (frwd/aft/port/stbd): | |
| L.8.3 Fast Rescue Boat | |
| Make/type: Engine power: hp | Viking 470 GRP-1 36 hp. |
| L.8.4 Personal Floatation Devices | |
| Make/type: Quantity: no. | USCG approved 158 jackets |
| L.8.5 Survival Suits | |
| Make/type: Quantity: no. | No |
| Make/type: | |

RIG AND EQUIPMENT SPECIFICATIONS

| SPECIFICATION | DESCRIPTIONS |
|--|----------------------|
| Quantity: no. | |
| L.8.6 Life Ring Buoys | |
| Make/type | Billy Pugh |
| Quantity total: no. | 14 |
| with lights: no. | 6 no. |
| with smoke: no. | 4 no. |
| with EPIRB: no. | N/A |
| L.8.7 Work Vests | |
| Quantity: no. | 20 |
| L.8.8 Escape Ladders/Nets | Yes |
| Make/type: | Scramble Net. |
| Quantity: no. | 2 |
| Make/type: | Coomar/Escape ladder |
| Quantity: no. | 2 |
| Make/type: | |
| Quantity: no. | |
| M. POLLUTION PREVENTION EQUIPMENT | |
| M.1. SEWAGE TREATMENT | |
| Make/model: | Omni pure |
| System type: | 12 MX MP |
| M.2 GARBAGE COMPACTION | Yes |
| Make/model: | Enviro Pak B30 |
| System type: | |
| Make/model: | |
| System type: | |
| M.3 GARBAGE DISPOSAL/GRINDER | |

