

750HP ZJ30/1700CZ Truck Mounted Mechanical Drilling Rig

General Description

- Hook load: 382,000 lbs, 190 US ton (1700KN) with 10 lines
- Mast type: 123' (37.5m) two section telescoping type that is raised using hydraulic cylinders
- Substructure type: Single section, swing up with screw jacks to secure one in position
- Depth rating: 5" DP 8,200 ft (2500M) or 4 ½" Drill pipe: 9,800 ft (3000M)
- Wind speed: No hook load & set back full of drill pipe: 68 mph (110 km/h)
- Setback capacity: 215,000 lbs, 107 US ton (960KN)
- Racking capacity: 4-1/2" drill pipe: 9,800ft (3000 m), 5" DP 8,200 ft (2500M)
- Rig floor height: 23 ft (7.1M)
- Clear height below rotary beams: 19.7 ft (6M)
- Rotary table size: 27.5"
- Drill line size: 1 1/8in (29mm)
- Draw works: JC28 1060hp (790KW), band brake, with ATD-330H twin disc clutch. With 5 speed transmission
- Catheads: 2 ea Y15160, Mounted in mast section, rated at 33,067 ft lb ft lbs straight pull
- Winches: 1 x hydraulic winches Model YJ3B and YJ5B & 1 x air winches one monkey board
- Crown saver: pneumatic Crown-o-matic' system
- Operating temperature: -20°C to +55°C (cold weather or desert modifications on request)

Power Package Rig and Carrier

- 2 x Cat C-15 1080 combined hp (805 KW) @ 2100RPM

Power System Electrical System

- 3 X Volvo 1241GE engines 1500 RPM X 300 Kw3 X Stamford HC14D Generator Voltage 400/230-Frequency 50 HZ-375 KVA Complete with MCC and control room, buildings to house all equipment as well as air compressor system. Lighting fixtures are rated for service in classified areas as per API RP 505 for rig system (60 Hz system also available)

Main Transmission and Compound Transmission

- Allison S5600 557 hp, input speed 2500 rpm, BJX260, input speed 2500rpm, max output torque 19,188 ft lbs

Control System

- Drillers console is mounted on the side of the mast, All electric and pneumatic controls are installed into a purged stainless steel console. Driller's console panel is furnished with other interface devices such as instrumentation system, hydraulic weight indicator and stand pipe pressure gauges

Top Drive

- TDS and drive unit: Tesco 250 HXI 700 (hydraulic) or 250 EMI 400 (electric) complete with guide rail, shipping containers, tools and operation manuals

Mud Pumps

- Mud Pumps: Qty 2 x 800hp triplex pumps c/w liner wash and charge pumps, Suction strainer, dampener and pulsation dampener, reset relief valves. Powered by Cat 3508B 1060 HP engine

BOP and Control system

- Shenkai 13- $\frac{5}{8}$ " 5K Annular BOP, 13- $\frac{5}{8}$ " 5K Double Ram and Single Ram, Drilling Spool. Ram block assemblies.

BOP Test Pump, (air powered) with hoses and chart recorder. BOP Test Base. BOP Stack Lifting device. Transport Skid. BOP Control Unit. BOP Control Unit remote Panel, (For Drill floor) Transport Skid for above control units. Choke and Kill Manifold 3-1/16" X 5K. 3-1/16" X 5K Manual and Hydraulic valves. JY-70A Remote Choke panel. 2-1/16" 5K Non-return Valve. Complete with high pressure fire proof hydraulic hoses and hand wheels

Solids Control System

- BBL capacity: 4 tank, 1,230 BBL (196M³). With additional brake cooling water tank and trip tank
- 3 each Brandt King Cobra Linear Shale Shakers with 3rd shaker incorporating 1 each Brandt King Cobra Mud Cleaner (16 x 4" de-silter cones rated for 1000GPM and 2 x 12" de-sander cones rated for 1000GPM)
- Qty 1 Ea Model Brandt DG-12 Vacuum Degasser with 5 hp, 50 hz, 230/460 volt, 3 phase, explosion proof electric motor rated for 1200 GPM complete with JP-12 Jet Pump Educator
- Mix hopper: Qty 2 DN150 x Jet hoppers
- 14 total. 13 x HM-15, 20 hp (15KW) and 1 x 7 hp (5.5 KW)
- Centrifugal pumps: Qty 2- 6 x 8 x 12 1/2" impeller, 100 hp (75KW) (de-silter, de-sander pumps)
- Centrifugal pumps: Qty 2- 6 x 8 x 13" impeller, 100 hp (75KW) (mix pumps)
- Centrifugal pumps: Qty 2- 6 x 8 x 13" impeller, 100 hp (75KW) (charge pump)
- Centrifugal pumps: Qty 2- 3 x 4 x 9" impeller, 15 hp (11KW) (water pump)
- Centrifugal pumps: Qty 2- Cooling pumps
- Poor Boy degasser: Qty 1- NQF1200/0.7
- Mud Guns: Qty 11- mud guns supplied

Handling Tools and Equipment

- Drill pipe and casing elevators, Bails, Slips for drill pipe and casing, Manual drill pipe and casing tongs, Pipe spinner, Casing power tong, Hydraulic unit, Swivel/Kelly unit with drive bushings, rotary table bushings and inserts, pipe racks, bit breakers

Air System

- 2 X Air compressors (Sullair) and air dryer system with reservoir in generator house as well as additional reservoir located in substructure

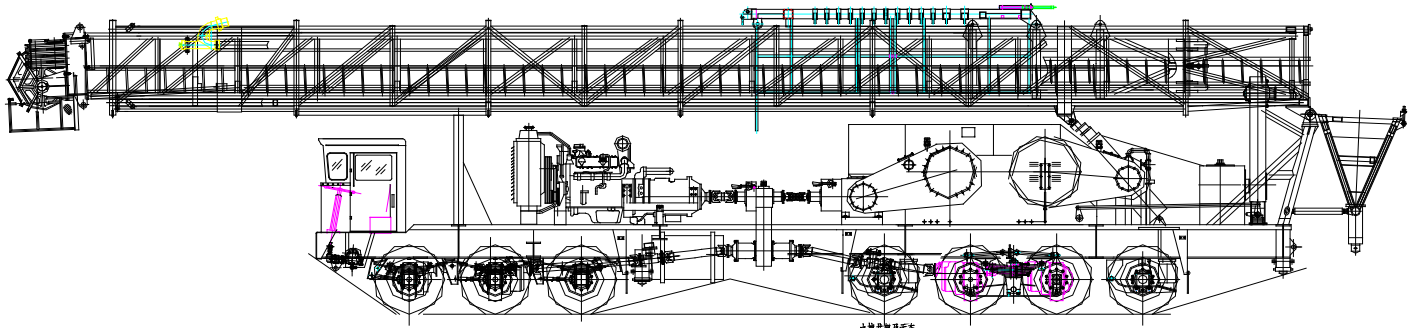
Auxiliary Tanks

- Water tank: 314 bbl (50m³) including 2 x pumps
- Diesel Fuel tank: 314 bbl (50m³) fuel tank, complete with pumps, filtration and distribution system

Rig Move

- Max. rated speed: 45 kph (28mph)
- Max climb gradient: 26%
- Gross weight of carrier 91T US (82.5T metric)
- Dimensions of carrier: 73'x12.3x15' (22.3m×3.75m×4.55m)

Technical Drawing



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