



Rig #20 Specifications

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| <u>Drilling Range:</u> | 25,000' With 5" Drill Pipe. |
| <u>Drawworks:</u> | American Block Model 1,500, Driven by 1,500 HP GE AC Motor. |
| <u>Mast:</u> | Process Systems 142' Telescoping Derrick, Rated at 750,000# Static Hook Capacity. |
| <u>Substructure:</u> | Process Systems 25' High Sling Shot With 21' Clearance With 750,000# Capacity and an IDE Walking system. |
| <u>Mud pump #1:</u> | Gardner Denver PZ11 1,600 HP Triplex Pump With 7,500# Manifold Rating, Powered GE 1,500 HP AC Motor Charged by (1)-6x8 Centrifugal Pump. |
| <u>Mud pump #2:</u> | Gardner Denver PZ11 1,600 HP Triplex Pump With 7,500# Manifold Rating, Powered GE 1,500 HP AC Motor Charged by (1)-6x8 Centrifugal Pump. |
| <u>Mud pump #3:</u> | Gardner Denver PZ11 1,600 HP Triplex Pump With 7,500# Manifold rating, Powered GE 1,500 HP AC Motor Charged by (1)-6x8 Centrifugal Pump. |
| <u>Rotary Table:</u> | 37-1/2" American Block Powered by 600 HP AC Motor. |
| <u>Automatic Catwalk:</u> | Forum PWS-3550 System. |
| <u>Floorhand:</u> | Blohm + Voss Oil Tools Auto Floorhand. |
| <u>Traveling assembly:</u> | American Block 400 Ton Block |
| <u>Top Drive:</u> | Canrig Model 1035 AC-500 350 Ton Top Drive. |
| <u>Generator package:</u> | (4)-MTU 12V-4000 (1,482 HP Each) Diesel Engines Driving (4)-LS6601 1,225 KW Generators. |
| <u>AC/VFD House:</u> | IDE 4X5 VFD Power System with Auto Drill, WOB, Rate of Penetration and Pressure Control, Crown and Floor Block position, Bridge and Overpull Protection With a Drillers Cabin. |
| <u>Mud system:</u> | (2)-Pit System, 1,000 Active bbls With 100 bbl Slug Tank & 100 bbl Trip Tank; (7)-Mud Agitators; (4)-Centrifugal Pumps; (2)-Mixing Hoppers; (3)-King Cobra Shale Shakers. |
| <u>B.O.P.E.:</u> | 13-5/8" 5,000# Annular, 13 5/8" 10,000# Double Ram, 10,000# Choke Manifold. 160 Gallon Accumulator With a Poor Boy Gas Buster. |
| <u>Water/ Fuel Storage:</u> | 500 bbl Water Tank With (2)-Transfer Pumps; 18,000 Gallon Fuel Storage; (2)-Transfer Pumps. |
| <u>Auxiliary Equipment:</u> | (2)-12,000# Hydraulic Floor Winches; 25,000' Survey Unit; (1)-Skid Mounted Rig Manager Quarters; (1)-Skid Mounted Crew Change Quarters; (3)-Sets of Pipe Racks; (1)-Parts House. |