



## Rig #19 Specifications

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<b><u>Drilling Range:</u></b>	21,500 with 5" Drill pipe.
<b><u>Drawworks:</u></b>	American Block 1500 Dual Speed Drawworks w/Regenerative Brake, Eaton Air Brake with Gear Reduction and (1) JEC HTM1500 Joliet AC Drive Motor.
<b><u>Mast:</u></b>	142' High, Rated at 750,000# Static Hook Capacity.
<b><u>Substructure:</u></b>	NOV Slingshot 28' High With 750,000# Casing and 500,000# Setback and a NOV Steel Toe 1200 Walking system.
<b><u>Mud Pump #1:</u></b>	Bomco FB-1600 Triplex, 7"x 12", 1,600 H.P., Driven by (1)-1500 HP, With 7,500# Manifold Rating, AmeriMex AMD 1500 AC Drive Motor, Charged by (1)-5x6 Centrifugal Pump.
<b><u>Mud Pump #2:</u></b>	Bomco FB-1600 Triplex, 7"x 12", 1,600 H.P., Driven by (1)-1500 HP With 7,500# Manifold Rating, AmeriMex AMD 1500 AC Drive Motor, Charged by (1)-5x6 Centrifugal Pump.
<b><u>Mud Pump #3:</u></b>	Bomco FB-1600 Triplex, 7"x 12", 1,600 H.P., Driven by (1)-1500 HP With 7,500# Manifold Rating, AmeriMex AMD 1500 AC Drive Motor, Charged by (1)-5x6 Centrifugal Pump.
<b><u>Rotary Table:</u></b>	NOV 37 1/2" Hydraulic drive
<b><u>Automatic Catwalk:</u></b>	NOV PC-5-47 PipeCat
<b><u>Floorhand:</u></b>	NOV ST-100 Hydraulic Iron Roughneck
<b><u>Traveling Assembly:</u></b>	NOV 6 sheave 500 ton grooved for 1 3/8" wire rope.
<b><u>Top Drive:</u></b>	NOV TDS-11SA 500 Ton Rated w/ 7500 psi mud path.
<b><u>Generators:</u></b>	(4)-Caterpillar 3512 DITA Series "B" (1,476 BHP Each) Diesel Engines Driving (4)-Kato 1,400 KW Generators.
<b><u>A.C. /VFD House:</u></b>	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.
<b><u>Mud System:</u></b>	(2)-Pit System, 1,000 Total Barrels, With Trip, Shaker, Volume, Mud Cleaning, Suction and Pill Mixing Compartments, (4) Mud Agitators, Submerged Guns, (2)-5x6 Centrifugal Pumps and (3) Mi Swaco Mongoose Pro Flow Line Cleaners (1) 220 Barrel Pre-Mix
<b><u>B.O.P.E.:</u></b>	13 5/8" 5,000# Annular, 13 5/8" 10,000# Double Ram and Single Ram, 10,000# Choke Manifold. 300 Gallon Accumulator With a Poor Boy Gas Buster (1)-NOV BOP Transporter
<b><u>Water / Fuel Storage:</u></b>	900 BBLS / 17,000 Gallons
<b><u>Auxiliary Equipment:</u></b>	Wireline Unit (.092"), (2)-Air compressors, Lower Doghouses, Toolpusher Trailer.