



Rig #4 Specifications

<u>Drilling Range:</u>	6,500' With 4-1/2" Drill Pipe. 8,000' With 3-1/2" Drill Pipe.
<u>Drawworks:</u>	Challenger 361, 540 H.P., Driven by (2)-Detroit B-60 Diesel Engines With a V-80 Parmac Hydromatic Brake and (2)-Allison CLT-750 Transmissions.
<u>Mast:</u>	Challenger 103' (Telescoping and Free Standing), Rated at 260,000# Static Hook Capacity.
<u>Substructure:</u>	Challenger 12' High, With 400,000# Capacity and 10'-1" Under Rotary Beam.
<u>Mud Pump #1:</u>	National 9P-100 Triplex, 9"x6-3/4", 1,000 H.P., Powered by a Detroit Diesel 12V-2000 Diesel Engine, Charged by (1)-5x6 Centrifugal Pump.
<u>Mud Pump #2:</u>	National 9P-100 Triplex, 9"x6-3/4", 1,000 H.P., Powered by a Detroit Diesel 12V-2000 Diesel Engine, Charged by (1)-5x6 Centrifugal Pump.
<u>Rotary Table:</u>	Brewster RSH18 - 18".
<u>Traveling Assembly:</u>	Gardner Denver 125 Ton Block/Hook Combination and TSM 150 Ton Swivel.
<u>Generators:</u>	(2)-Perkins 1106D Diesel Engines Driving (1)-Stamford 165 KW Generator and (1) Marathon 150 KW.
<u>Mud System:</u>	(1)-230 Barrel, 3-Compartment Mud Tank, (1)-5x6 Centrifugal Mixing Pump, (1)-6x8 Centrifugal Desilting Pump.
<u>B.O.P.E.</u>	Hydril GK 11", 3,000# Annular, Shaffer 11", 3,000# D-Ram, Koomey 80 Gallon Accumulator and 3,000# Choke Manifold.
<u>Water/Fuel Storage:</u>	350 BBLs./1,800 Gallons.
<u>Auxiliary Equipment:</u>	(2)-Hydraulic Winches, Wireline Unit (.092"), Doghouse, Toolpusher Trailer.