



LEO

**OG GEMINI**  
**550** by ORION

<b>DRAWWORKS:</b>	ALTA Rig Drawworks 1200HP Powered by one GEB-22, 1200HP AC Traction Motor
<b>ENGINES:</b>	Three (3) Cummins KTA50 diesel engines each rated at 1470HP
<b>GENERATOR SETS:</b>	Engines Unitized with AVK 1100KW Generators
<b>MAST:</b>	134' working height mast with 550,000# hook load. 16,000' of setback with 5" Drill Pipe. TopDrive Transports in mast. Hydraulically raised API Spec 4F, 3rd Ed, PSL-2
<b>SUB STRUCTURE:</b>	22' Floor Height, 18' Clear Height. Hydraulically raised rated at 550,000# rotary load. 37.5' Rotary Table. Integrated Iron Roughneck
<b>ROTARY:</b>	Emsco type 37-1/2" Rotary, powered by a hydraulic drive motor
<b>BOP:</b>	One (1) 11" 10M Shaffer Type Double Ram BOP One (1) 11" 10M Shaffer Type Single Ram BOP One (1) 11" 5M Shaffer Type annular One (1) Koomey 6 station accumulator, API 16E. a 10M flexible choke line and 4-1/16" 10M choke manifold
<b>MUD PUMPS:</b>	Two (2) F-1600 triplex mud pumps each pump is equipped with a GEB-29 AC traction motor rated at 1500HP 6" ceramic liners, 6 X 5 X 14 Charging pump, 1 X 1.5C Liner Washing Pump
<b>MUD SYSTEM</b>	848 Barrels Total Active Capacity. Two Covered 424 Barrel Tanks with round bottoms and electric agitators for optimum mixing/blending and ease of clean out. Each tank contains two 5X 6 X 75HP centrifugal pumps. Hopper is remote for ease of use with bulk tanks. Three Brandt King Cobra Shakers, Brandt DG-10 degasser and Brandt 16 Cone desilter are all unitized on a hydraulically raised mud processing skid. A separate skid incorporates one 106 barrel trip tank with 2X3X40HP centrifugal pump.
<b>TOP DRIVE:</b>	Canrig 275 Ton AC (with "Rockit" Capability)
<b>OVERHEAD STRING:</b>	One (1) 275 ton, five sheave block, with a 10 line string up of 1-1/4" line
<b>DRILLER CONTROLS:</b>	Omron Electronic Driller and VFD House. AC drives regulate drawworks, mud pumps and top drive. AC Drive technology is integrated with PLC technology. Motor control systems actuate remaining auxiliary and peripheral loads.
<b>DRILL PIPE:</b>	10,500' of 5" drill pipe of sufficient grade and weight to provide 100# margin over pull.
<b>DRILL COLLARS:</b>	3-8" 21-6 1/2" drill collars.
<b>AUXILIARY EQUIPMENT:</b>	Walking System Automatic Catwalk Iron Roughneck Mathey wireline unit with 25,000' of .092 wireline Motorized drill line spool Toolpusher and crew quarters Meeting and Change House Combo with A/C Hot Water Power Washer 0-7 degree drift indicator