



RIG # 522

1,500 HP Triple Mast Drilling Rig

SUBSTRUCTURE

One Piece Step Down
 Floor Height: 16' 2" (19'-2" with optional 3' pony sub)
 Clear Height (beneath rotary beams): 13' 10" (16'-10" with 3' pony sub)
 Rotary Capacity: 650,000 lbf
 Max Pipe Setback: 600,000 lbf
Note: All floor heights above are based on the substructure sitting on 6" mats, 14" skidding system beams & 3' pony subs

MAST

127' telescoping, Drill Line: 1-1/4"
 Static Hook Load: 500,000 lbf
 Racking Capacity: 28,000' of 4" DP, 24,000' of 5" DP

DRAWWORKS

Rigmaster E80AC 500,000lbs w/ 8 Lines
 Input Power: 1,500 hp AC traction motor
 Main Brake: 1,500 hp AC traction motor (Dynamic)
 Aux Parking Brake: Eaton armature brake & drum / band brake system

TOP DRIVE

Tesco EX1 800 AC 350 Ton: Max speed 220 rpm,
 Continuous Drill Torque: 38,000 ft-lbs
 Max Torque (Make / Break): 50,000 ft-lbs / 60,000 ft-lbs
 Integral 250 Ton 4 X 36" split block assembly

FLOOR TOOLS

-Iron Roughneck
 NOV ST-80C Conn Range: 4 1/2" to 8 1/2"
 Maximum Make-up torque: 60,000 ft-lbs
 Maximum Break-out torque: 80,000 ft-lbs
 -Rotary Table
 EDS 27 1/2" 250 Ton with hydraulic drive to position tools only
 27 1/2" Diameter opening
 -Rotary Mousehole
 Hydraulic Assembly

POWER SYSTEM

VFD, MCC, Woodward Generator Control, four Detroit Diesel MTU 16V2000, 1350 BHP 1,800 rpm engines with Marathon 900 kVA Generators.
 Dual Fuel Installed (Diesel / Natural Gas)

MUD PUMPS (TWO)

RS-F1600 Triplex Rated Power: 1600 hp
 Stroke: 12"
 Input Power: 1500 hp AC traction motor
 Pressure Rating: 7500 psi

OPTIONAL MECHANICAL THIRD PUMP

Gardner Denver PZ-11 Triplex Rated Power: 1600 hp
 Stroke: 11"
 Caterpillar C32 1350 hp with 6 Speed Transmission
 Pressure Rating: 7500 psi

MUD TANKS

Two Tank "Covered" w/ 1000bbls total capacity
 Shakers: Two MI Swaco Mongoose 4 panel dual motion
 Mud Gas Separator: MI Swaco SMGS 6' OD x 22.3' tall
 Trip Tank: 20 bbls

MUD SYSTEM

7500 psi Max Pressure
 5" Main plumbing and standpipe

SCALPING TANK

Main Tank: 280 bbls capacity
 Trip Tank: 80 bbls capacity
 Shakers: Two Derrick Hyperpool high volume Shakers

BOP (NACE)

As Required by Contract
 25 Ton BOP Handling System

MANIFOLD

3-1/8" 5,000 psi c/w two 3 1/8" manual chokes

ACCUMULATOR

CTI: 120 gal 5 station 3000 psi, c/w N2 Backup & electric triplex pump

CATWALK

Ja-co Catwalk, tubular max length 45', max OD 13 3/8", max weight 10,000lbs

TUBULARS

Drill Pipe: Supplied as needed, per availability
 Drill Collars & heviwate: Supplied as needed, per availability

MISC.

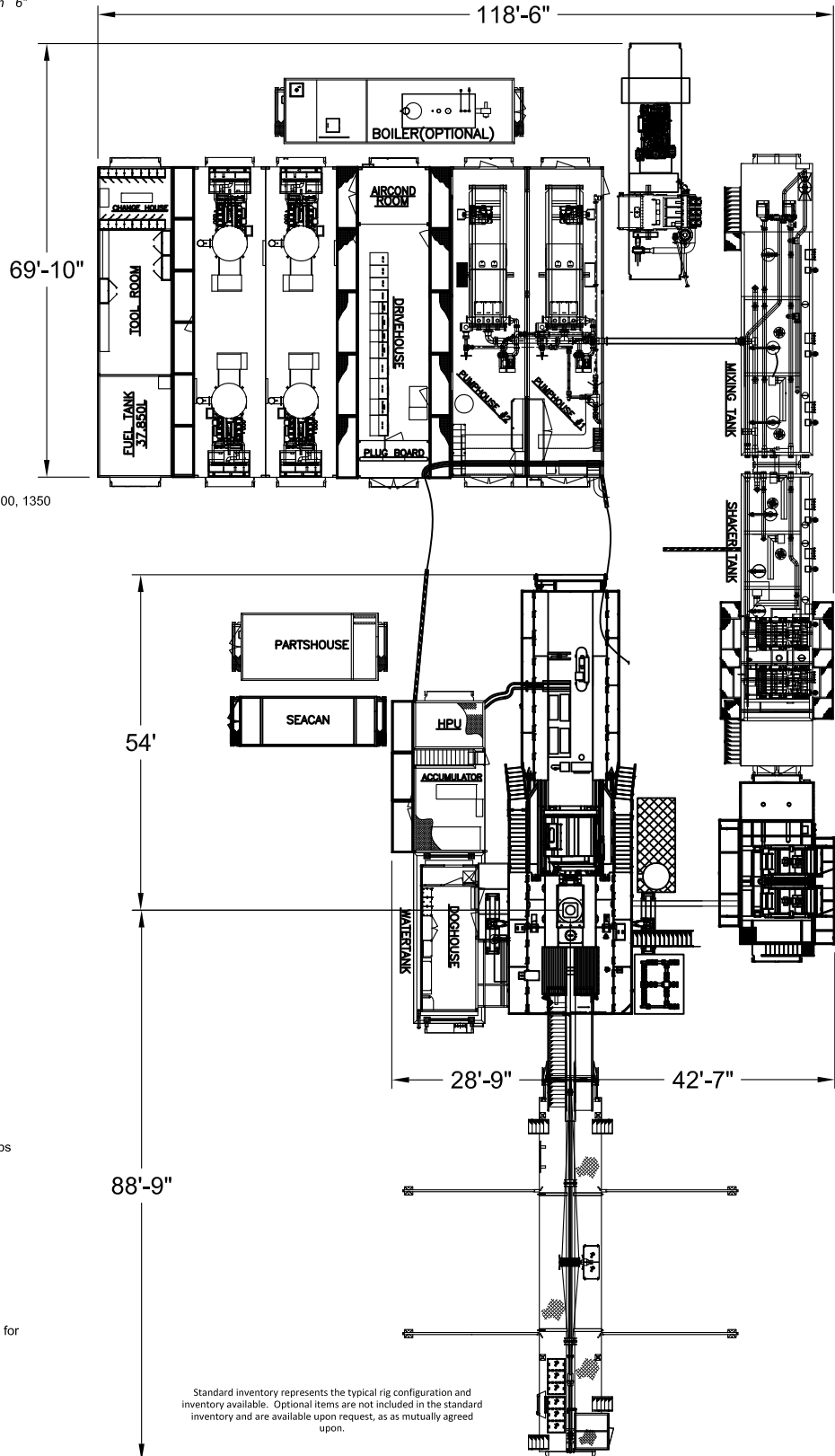
Water Tank: 400bbls; Fuel Tank 10,000 gal; Screw Compressor
 Boiler: 125 hp with Full Winterization (Optional)

MOVING SYSTEM:

Hydraulic skidding system with rams and integrated skid beams.
 Dual Zipper style umbilical [110' displacement each, 220' total] connection for hydraulic and electrical supply.

TOOL/ STORAGE/ CAMP

Parts Storage Room and Tool House Room
 Rig Manage Trailer: 14' x 44' skid mounted



Standard inventory represents the typical rig configuration and inventory available. Optional items are not included in the standard inventory and are available upon request, as mutually agreed upon.