



# RIG # 521

## 1,500 HP Triple Mast Drilling Rig

### SUBSTRUCTURE

One Piece Step Down with 3' pony sub  
 Floor Height: 16' 2" (19'-2" with 3' pony sub)  
 Clear Height (beneath rotary beams): 13' 10" (16'-10" with 3' pony sub)  
 Rotary Capacity: 500,000 lbf  
 Max Pipe Setback: 380,000 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: 22,500' of 4" DP, 17,300' 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 600 AC 350 Ton: Max speed 220 rpm,  
 Continuous Drill Torque: 30,000 ft-lbs  
 Max Torque (Make / Break): 45,000 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  
 -Mousehole  
 Hydraulic Assembly

### POWER SYSTEM

VFD, MCC, Woodward Generator Control, Three Caterpillar 3512C with Kato 1225 Generators

### MUD PUMPS (TWO)

RS-F1600 Triplex Rated Power: 1600 hp  
 Stroke: 12"  
 Input Power: 1500 hp AC traction motor  
 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 MI Swaco Mongoose 4 panel dual motion

### BOP (NACE)

As Required by Contract  
 25 Ton BOP Handling System

### MANIFOLD

Cameron 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

Forum Energy Catwalk, tubular max length 45', max OD 13 5/8", max weight 10,000lbs

### TUBULARS

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

### MISC.

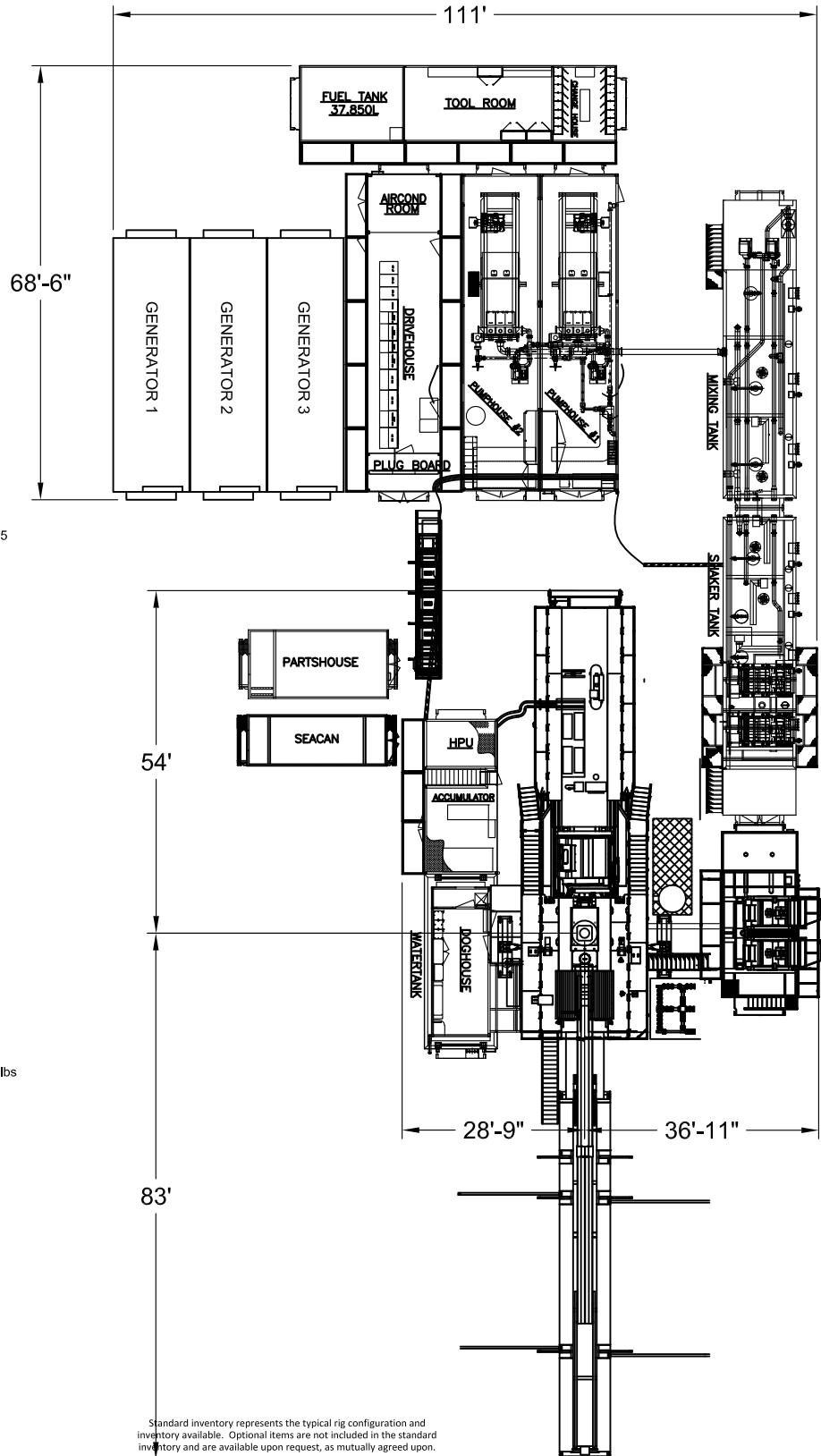
Water Tank: 400bbls; Fuel Tank 10,000gal; Screw Compressor  
 Boiler: 125 hp with Full Winterization (Optional)

### 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.