

# RIG # 524

## 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: 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 sub*

### 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 EXI 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 3/4" to 8 3/4"  
 Maximum Make-up torque: 60,000 ft-lbs  
 Maximum Break-out torque: 80,000 ft-lbs  
 -Rotary Table  
 EDS 27 3/4" 250 Ton with hydraulic drive to position tools only  
 27 3/4" Diameter opening  
 -Mousehole  
 Hydraulic Assembly

### POWER SYSTEM

VFD, MCC, Woodward Generator Control, three Detroit Diesel MTU 16V2000, 1350 BHP 1,800 rpm engines with Marathon 900 kVA Generators & one Detroit Diesel Series 60, 685 BHP 1,800 rpm engine with Marathon 600 kVA Generator.  
 Dual Fuel Compatible (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

PZ-11 Triplex Rated Power: 1600 hp  
 Stroke: 11"  
 Input Power: 1350 hp Caterpillar C32 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 MI Swaco Mongoose 4 panel dual motion

### BOP (NACE)

As Required by Contract  
 25 Ton BOP Handling System

### MANIFOLD

4 1/8" x 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 5/8", max weight 10,000lbs

### TUBULARS

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

### MISC.

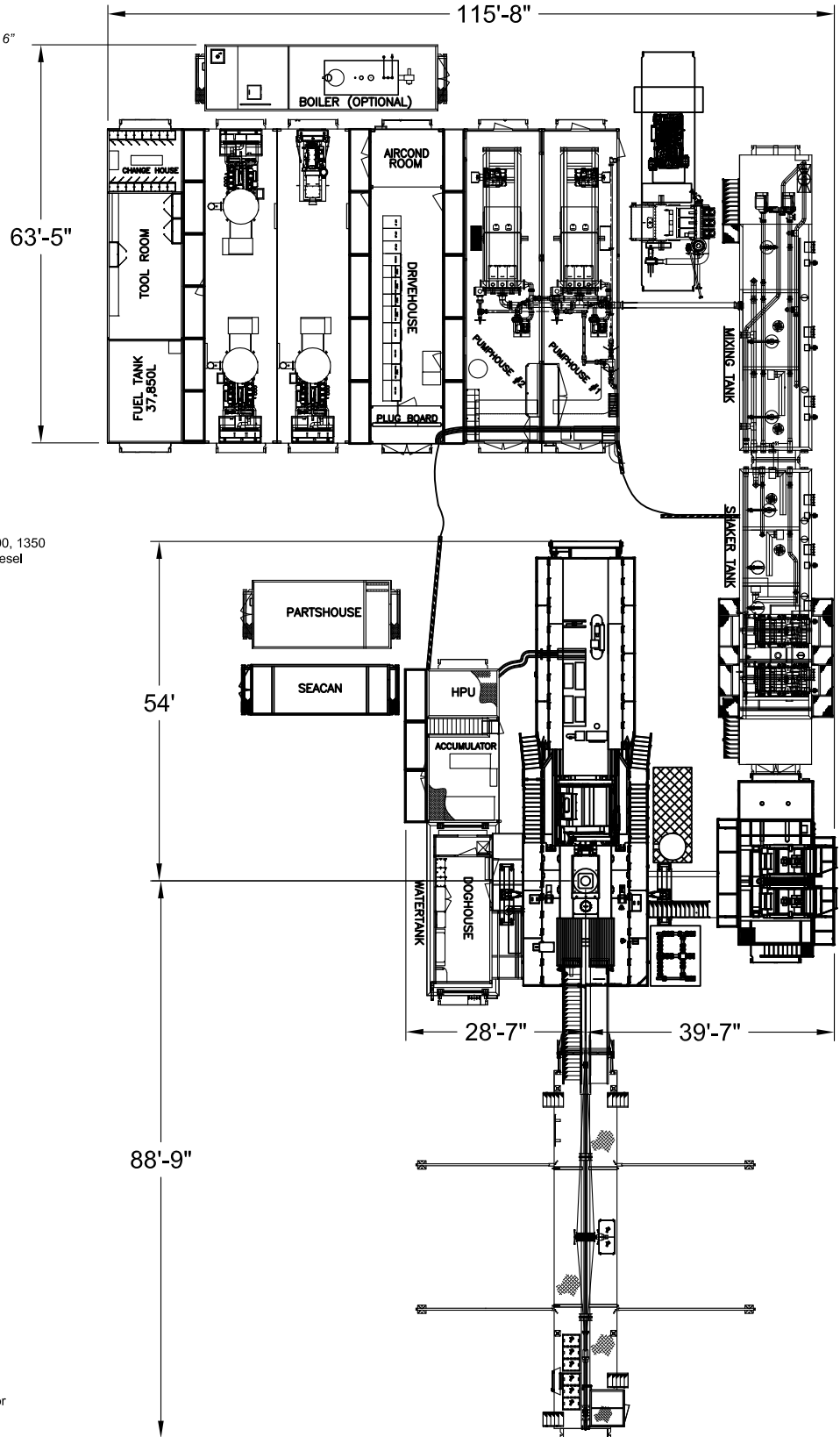
Water Tank: 400bbls; Fuel Tank 10,000 gal; Screw Compressor  
 Boiler: 125 hp with Full Winterization (Optional)

### 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 Management 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.

All ratings quoted herein are manufacturer specifications. AKITA's normal operating parameters are 90% of manufacturer ratings. Operation of rig equipment beyond these parameters requires approval from AKITA field office management.