



# RIG # 518

## 1,500 HP Triple Mast Drilling Rig

### SUBSTRUCTURE

One Piece Step Down  
 Floor Height: 16' 2" (19'-2" with optional 3' pony subs)  
 Clear Height (beneath rotary beams): 13' 10" (17'-10" with optional pony subs)  
 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" Walking system*

### 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 600 AC 350 Ton: Max speed 220 rpm,  
 Continuous Drill Torque: 30,000 ft-lbs  
 Max Torque (Make / Break): 45,000 ft-lbs  
 600 hp AC induction motor & drive system with PLC  
 Integral 250 Ton 4 X 36" split block assembly

### IRON ROUGHNECK

NOV ST-80C Conn Range: 4 1/4" to 8 3/4"  
 Spin Speed: 75 rpm nominal on 5" drill pipe  
 Spin Torque: 1,750 ft-lbs  
 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

90' 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 & one Detroit Diesel Series 60, 685 BHP 1,800 rpm engine with Marathon 600 kVA Generator  
 Dual Fuel Compatible (Diesel / Natural Gas)

### MUD PUMPS

QTY: 2  
 RS-F1600 Triplex Rated Power: 1600 hp  
 Stroke: 12"  
 Input Power: 1500 hp AC traction motor  
 Pressure Rating: 7500 psi

### OPTIONAL MECHANICAL THIRD PUMP

Continental Emsco FB 1600 Triplex Rated Power: 1600 hp  
 Stroke: 12"  
 Caterpillar 3512 with 6 Speed Transmission  
 Pressure Rating: 7500 psi

### MUD TANKS

Two Tank w/ 1000bbls total capacity  
 Shakers: Two MI Swaco Mongoose 4 panel dual motion  
 Mud Gas Separator: MI Swaco 4' OD x 12' tall  
 Trip Tank: 20 bbls

### MUD SYSTEM

7500 psi Max Pressure  
 5" Main plumbing and standpipe

### SCALPING TANK (Optional)

Main Tank: 280 bbls capacity  
 Trip Tank: 80 bbls capacity  
 Shakers: Two Derrick Hyper Pool Shakers

### BOP (NACE)

As Per Required by Contract

### MANIFOLD

Pacific: 3-1/8" x 2-1/16" 5,000 psi c/w two 2-9/16" manual chokes

### ACCUMULATOR

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

### CATWALK

Ja-co Power 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.

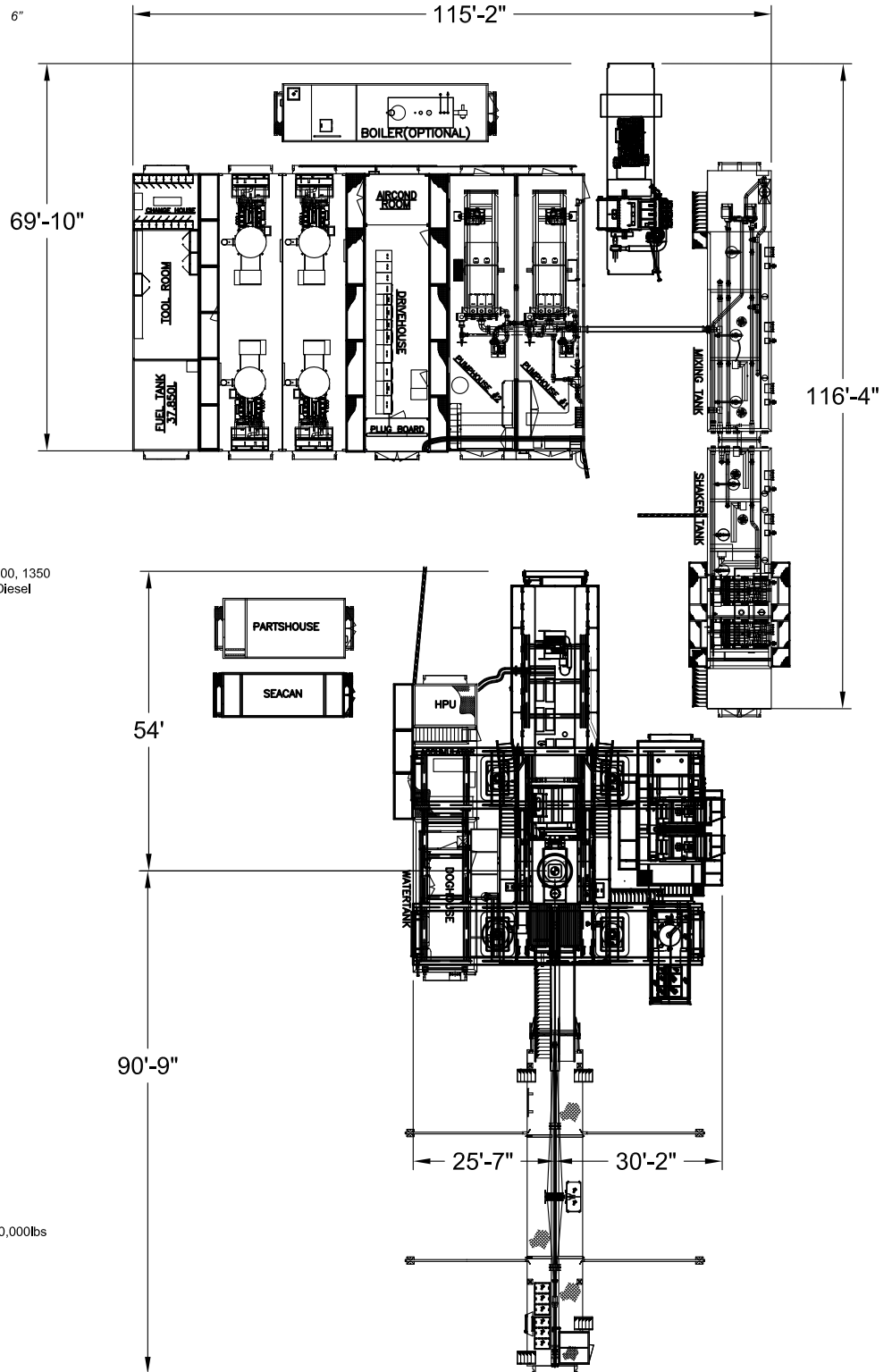
Water Tank: 400bbls; Fuel Tank 10,000gal; Screw Compressor  
 Optional Boiler: 125 hp with Full Winterization

### MOVING SYSTEM:

Integrated hydraulic "stomper" style X / Y movement capacity,  
 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.