



# RIG # 22

## 1,500 HP Triple Mast Drilling Rig

### SUBSTRUCTURE

Hodgson box on box Substructure  
w/ integrated Columbia Moving System  
Floor Height: 21'-6"  
Clear Height: 17'-5"  
Rotary Capacity: 675,000 lbs irrespective of setback  
Max Pipe Setback: 675,000 lbs

### MAST

136' Cantilever Triple, Drill Line: 1-1/4"  
Static Hook Load: 675,000 lbs  
Racking Capacity: 20,000' of 5" DP  
Block: 350T 10 line Becket

### DRAWWORKS

PREP 1500: 675,000 lbs w/ 10 Lines  
Input Power: 1,500 hp AC Induction motor  
Main Brake: Induction motor dynamic braking  
Aux Parking Brake: Wichita 336 spring applied brake

### TOP DRIVE

Tesco EX1 800 AC 350 Ton; Max speed 220 rpm,  
Continuous Drill Torque: 37,500 ft-lbs  
Max Make-Up Torque: 48,000 ft-lbs  
Max Break-Out Torque: 56,000 ft-lbs

### IRON ROUGHNECK

NOV ST-80C Conn Range: 4 1/4" to 8 1/4"  
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

HHF Z275 27 1/2" 500 Ton with hydraulic drive to position tools only  
27 1/2" Diameter opening

### POWER SYSTEM

Converteam VFD, MCC, Woodward Generator Control, Highline input power bay  
Three Caterpillar C32 Generators Rated at 910 kW each, 100 kw Coldstart Gen  
Dual Fuel Installed (Diesel / Natural Gas)

### MUD PUMP #1

HHF1600 Triplex Rated Power: 1600 hp  
Stroke: 12"  
Input Power: 1500 hp AC traction motor  
Pressure Rating: 7500 psi

### MUD PUMP #2

HHF1600 Triplex Rated Power: 1600 hp  
Stroke: 12"  
Input Power: 1500 hp AC traction motor  
Pressure Rating: 7500 psi

### MUD PUMP #3

PZ-11 Triplex Rated Power: 1600 hp  
Stroke: 12"  
Input Power: 1550 hp Caterpillar 3512C DITA with 8 speed Caterpillar Transmission  
Pressure Rating: 7500 psi

### MUD TANKS

Two Tank "Covered" w/ 1350 bbls total capacity,  
6 separate compartments inc Pill tank  
Mud Gas Separator: MI Swaco SMGS 6' OD x 22.3' tall

### MUD SYSTEM

7500 psi Max Pressure  
4" Main plumbing and standpipe

### SCALPING TANK

Main Tank: 123 bbls capacity  
Trip Tank: 28 bbls capacity  
Shakers: Three NOV King Cobra Venom  
Transfer pumps: Two 6x5x14 Centrifugal pumps

### BOP (NACE)

As per contract

### MANIFOLD

3-1/16" 10,000 psi

### ACCUMULATOR

CTI: 220 gal 6 station 3000 psl, c/w N2 Backup & electric triplex pump

### CATWALK

Northrig C22 tubular max length 47', max weight 10,000lbs

### TUBULARS

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

### MISC.

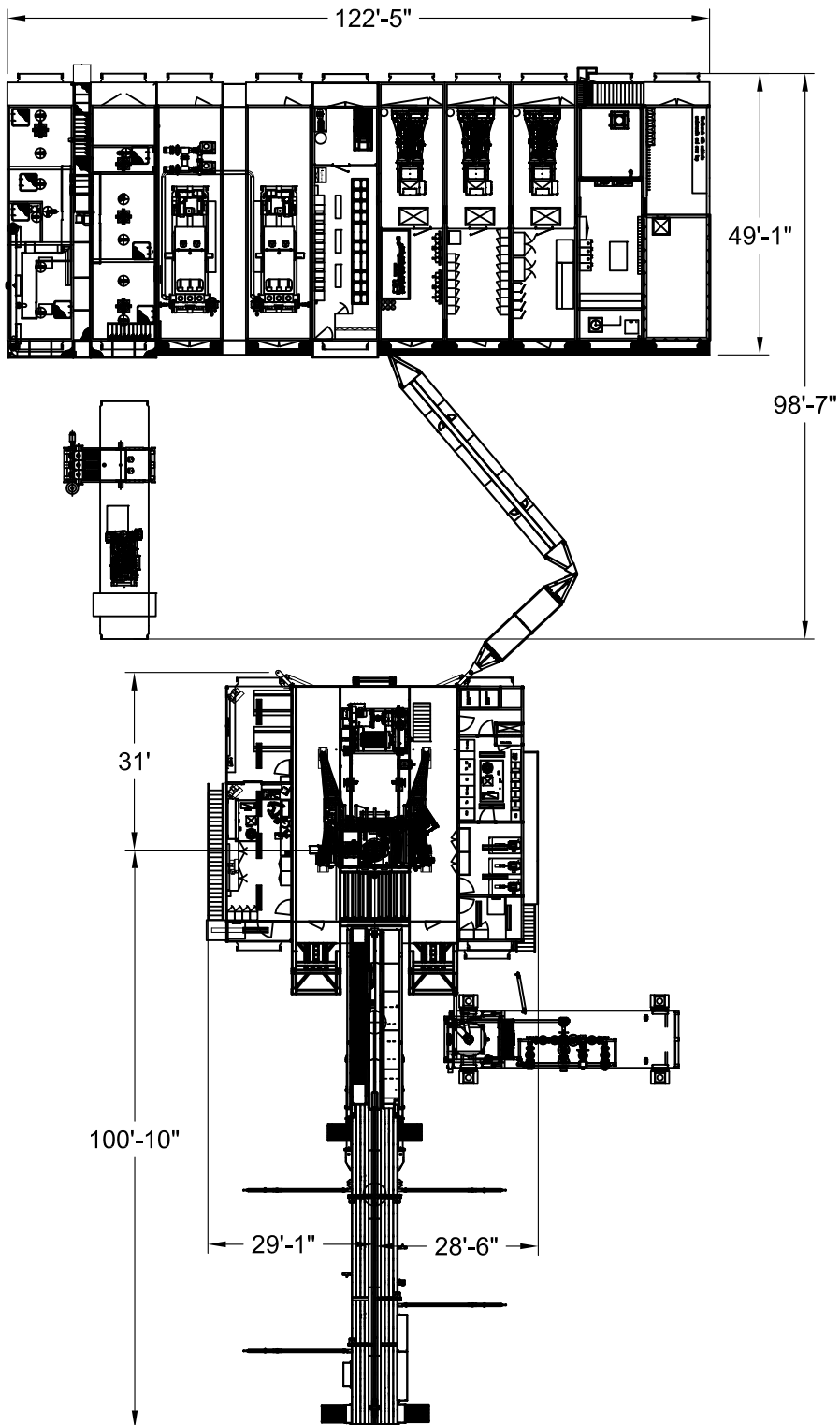
Water Tank: 375bbls; Fuel Tank 6,340 gal; Screw Compressor

### MOVING SYSTEM:

Integrated Columbia X-Y moving system capable of 360 degree motion  
350' of suitcase style umbilical connecting central complex with the Drilling module

### TOOL/ STORAGE/ CAMP

Parts Storage Room and Tool House Room  
Rig Manager Trailer: skid mounted



Standard inventory represents the typical rig configuration and inventory available. Optional items are not included in the standard inventory and are available on 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.