



AKITA
DRILLING

RIG 522

1,500 hp Triple Mast Drilling Rig

SUBSTRUCTURE

One Piece Step Down

Floor Height: 16'-2" (4.93m)

: 20'-2" (6.1m) with optional 4' pony sub

Clear Height (beneath rotary beams): 13'-10" (4.22m)

: 17'-10" (5.4m) w/opt 4' pony sub

Rotary Capacity: 500,000 lbs (227 Metric Tons)

Max Pipe Setback: 380,000 lbs (172 Metric Tons)

Note: All floor heights above are based on the substructure sitting on 6" Mats and a 14" Skidding System Beams

MAST

142' (43.3m) telescoping lattice design

Static Hook Load: 500,000 lbs (227 Metric Tons)

Drill Line: 1-1/4"

Racking Capacity: 22,500' of 4" DP (6,858m of 102mm DP)

18,500' of 5" DP (5,639m of 127mm DP)

DRAWWORKS

RIGMASTER E80AC 500,000 lbs (227 Metric Tons) w/ 8 lines

Input Power: 1,500 hp AC Traction motor

Main Brake: 1,500 hp AC traction motor (Dynamic)

Aux Parking Brakes: Easton armature brake & drum / band brake system

MUD PUMP #1

FB-1600 Type Triplex Pump Rated Power: 1,600 hp

Stroke: 12" (305 mm)

Input Power: (1) 1,500 hp AC traction motor

Pressure Rating: 7,500 psi (51.7 MPa)

MUD PUMP #2

FB-1600 Type Triplex Pump Rated Power: 1,600 hp

Stroke: 12" (305 mm)

Input Power: (1) 1,500 hp AC traction motor

Pressure Rating: 7,500 psi (51.7 MPa)

MUD TANKS

Two Tanks "Covered" w/ 1,000 bbls (159 m³) total capacity

Shakers: (2x) MI Swaco Mongoose 4 panel dual-motion

Mud Gas Separator: (x1) CWS847 22" (559mm) OD x 72" (1,829mm) tall

Trip Tanks: 20 bbls (3.2 m³)

SCALPING TANK (Optional)

Main Tank 280 bbls (33 m³)

Trip Tank 80 bbls (9.5 m³) Capacity

Shakers: (x2) MI Swaco Mongoose 4 panel dual motion

BOP (NACE Standards)

CTI 11" (280mm) x 5,000 psi (34.5 MPa) WP Spherical Annular

CTI 11" (280mm) x 5,000 psi (34.5 MPa) WP Double Ram

CTI 11" (280mm) x 5,000 psi (34.5 MPa) WP Single Ram

BOP Handling System

Note: Alternate BOP Sizes are available

MANIFOLD

Total Oilfield Equipment 3-1/8" x 4-1/16" 5,000 psi (34.5 MPa) Manual Chokes

ACCUMULATOR

CTI 120 Gallons (454 Liters) 5 station, N2 Backup, (x2) pneumatic pumps and

(x1) electric triplex pump

TOP DRIVE

Tesco EX1 600 AC 350 Ton (317 Metric Tons) Max Speed: 220 rpm

Continuous Drill Torque: 30,000 ft-lbs (40 kN-m)

Max Torque (Make/Break): 45,000 ft-lbs (61 kN-m)

600 hp AC induction motor & drive system w/ PLC

Integral 250 ton 4 x 36" (910 mm) split block assembly

IRON ROUGHNECK

NOV ST-80C Conn. Range: 4-1/4" (108 mm) to 8-1/2" (216 mm)

Spin Speed: 75 RPM -nominal on 5" (127 mm) Drill Pipe

Spin Torque: 1,750 ft-lbs (2,373 Nm)

Maximum Make-Up Torque: 60,000 ft-lbs (81,500 Nm)

Maximum Break-Out Torque: 80,000 ft-lbs (108,500 Nm)

ROTARY TABLE

EDS 27-1/2" (700 mm) - 250 Ton with hydraulic drive for positioning

tools only, Round Opening: 27-1/2" (70 cm)

ROTARY MOUSEHOLE

90' (27.4 m) hydraulic assembly

CATWALK MACHINE

Ja-Co Power Catwalk Tubular max length: 45 feet (13.7m)

Max OD 13-5/8" (346 mm) Max Weight 10,000 lbs (4,536 kg)

POWER SYSTEM

VFD, MCC, Woodward Generator Control (x3) Detroit Diesel MTU

16V2000, 1,350 BHP 1,800 RPM Engines, with Marathon 900 KVA

Generators and (1x) Detroit Diesel Series 60: 685 BHP 1,800 RPM Engine

with Marathon 600 KVA Generator

Dual Fuel Compatible (Diesel / Natural Gas)

TUBULARS

Drill Pipe: Supplied as needed, *per availability*

Drill Collars and Heavy Weight: Supplied as needed, *per availability*

MOVING SYSTEM

Hydraulic skidding system with rams and integrated skid beams.

Dual zipper (x2) style umbilical [220 ft (67 m) displacement] connection

for hydraulic and electrical supply.

Miscellaneous

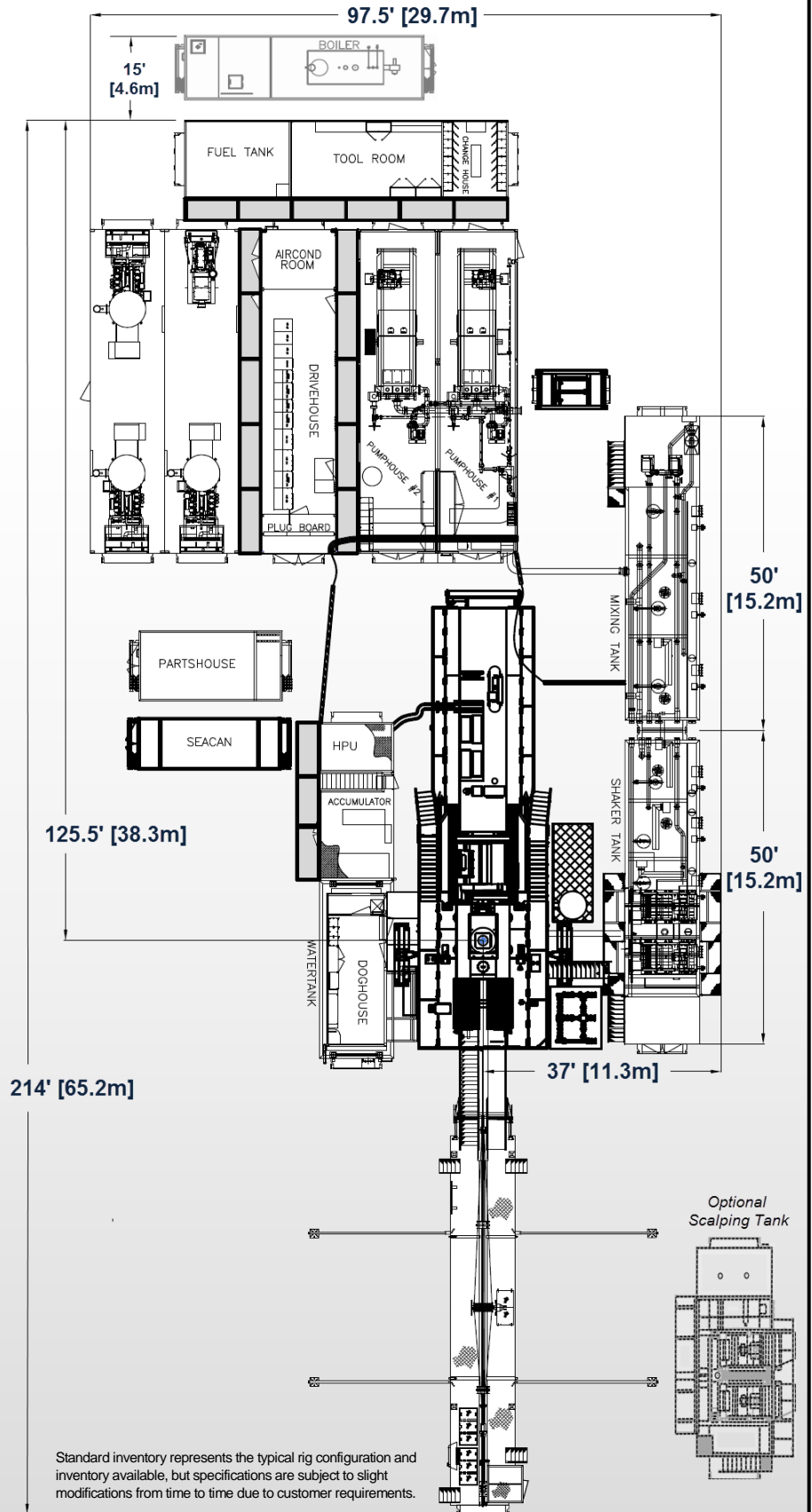
Water Tank: 400 bbls (47.7 m³) Fuel Tank: 17,000 Gals (64,352 Liters)

Screw Compressor (x1) Boiler and Full Winterization

TOOL / STORAGE / CAMP

Parts Storage Room and Tool House Room

Rig Manager Trailer: One 14' x 44' (4.3m x 13.4m) Skid mounted



Standard inventory represents the typical rig configuration and inventory available, but specifications are subject to slight modifications from time to time due to customer requirements.

All ratings quoted herein are manufacture specifications. AKITA's normal operating parameters are 90% of manufactures mast rating and 80% of mud pump manufacturer pressure rating. Operation of rig equipment beyond these parameters requires approval from AKITA field office management.