



RIG 517

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

PREP DL2 485,000 lbs (220 Metric Tons) w/ 8 lines
 Input Power: 1,000 hp AC Traction motor
 Main Brake: 1,000 hp AC traction motor (Dynamic)
 Aux Parking Brakes: Hydraulic disc caliper system

MUD PUMP #1

F-1600 Type Triplex Pump Rated Power: 1,600 hp
 Stroke: 12" (305 mm)
 Input Power: (1) 1,500 hp AC traction motor
 Pressure Rating: 5,000 psi (34.5 MPa)

MUD PUMP #2

F-1600 Type Triplex Pump Rated Power: 1,600 hp
 Stroke: 12" (305 mm)
 Input Power: (1) 1,500 hp AC traction motor
 Pressure Rating: 5,000 psi (34.5 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) MI Swaco 48" (122mm) OD x 120" (305mm) 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

Pacific 3-1/8" x 2-1/16" 5,000 psi (34.5 MPa) c/w 1 Ea 2-9/16" manual chokes

ACCUMULATOR

CTI 120 Gallons (454 Liters) 5 station, N2 Backup and (x1) electric triplex pump

TOP DRIVE

Tesco EMI 400 AC 250 Ton (317 Metric Tons) Max Speed: 200 rpm
 Continuous Drill Torque: 21,000 ft-lbs (28.5 kN-m)
 Max Torque (Make/Break): 32,000 ft-lbs (43.4 kN-m)
 400 hp AC induction motor & drive system w/ PLC
 Integral 250 ton 4 x 36" (910 mm) split block assembly

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

TUBULARS

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

MOVING SYSTEM

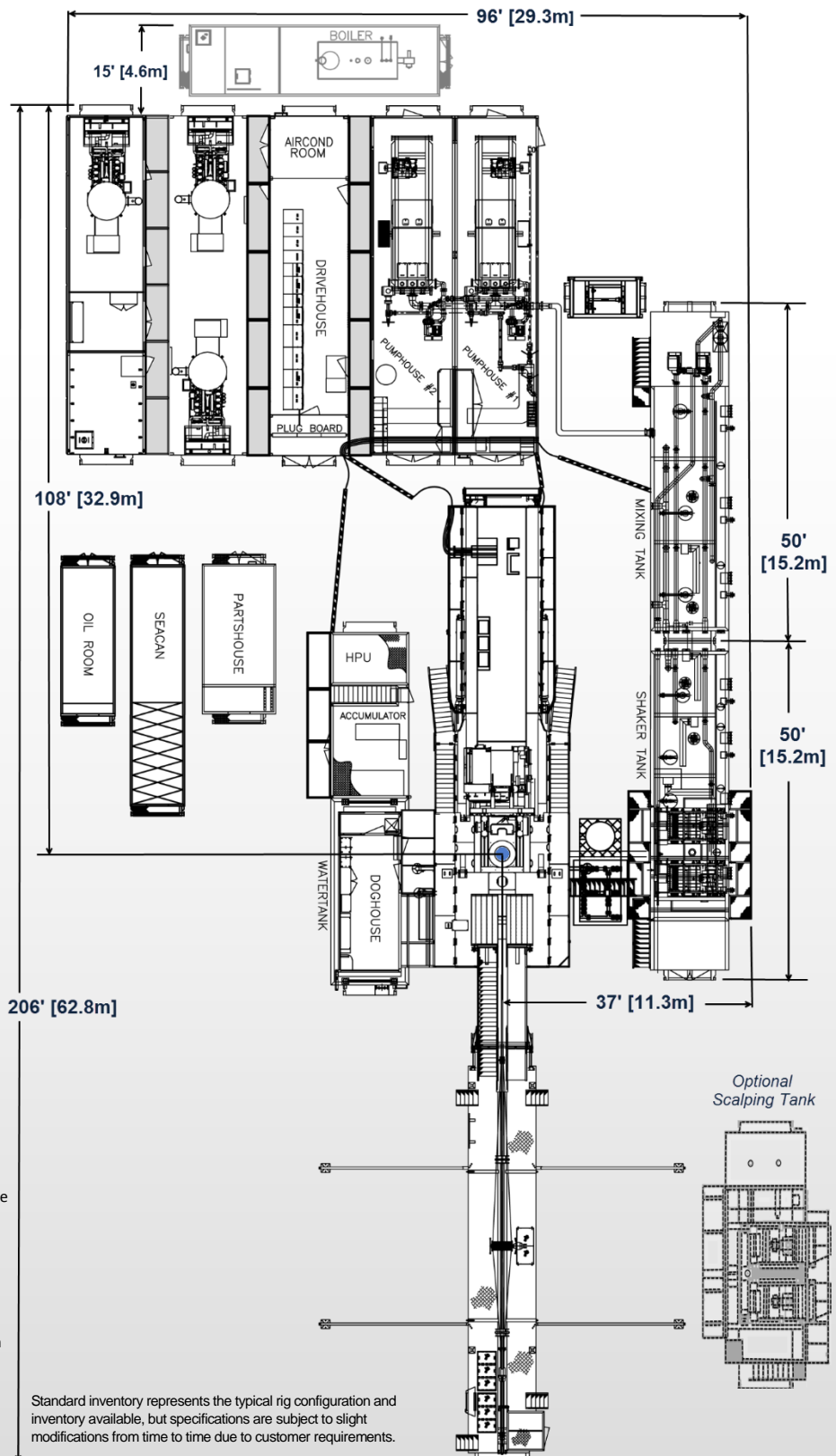
Hydraulic skidding system with rams and integrated skid beams.
 Dual zipper (x2) style umbilical [220 ft (67 m) displacement] connection for hydraulic and electrical supply.

Miscellaneous

Water Tank: 400 bbls (47.7 m³)
 Fuel Tank: 10,000 Gals (37,854 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



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.