



AKITA
DRILLING

RIG 44

2,000 hp Triple Mast Drilling Rig

SUBSTRUCTURE

Lee C Moore Self-Elevating
 Floor Height: 28'-8" (8.74m)
 Clear Height: 24'-2" (7.37m)
 Rotary Capacity: 1,300,000 lbs (578,000 daN)
 Max Pipe Setback: 500,000 lbs (222,400 daN)
 Casing Capacity: 800,300 lbs (356,000 daN) irrespective of setback

MAST

142' (43.3m) Lee C. Moore hydraulically raised design
 Static Hook Load: 975,000 lbs (433,680 daN)
 Drill Line: 1-3/8"
 Racking Capacity: 21,981' of 5" DP (6,700m of 127mm DP)

BLOCK

EMSCO RA-52-6 Load Rated: 1,000,000 lbs (445,000 daN)

SWIVEL

National P500 Static Load Rated: 1,000,000 lbs (445,000 daN)

DRAWWORKS

National 1320 UE 940,000 lbs (418,110 daN) w/ 12 lines
 Input Power: 2,000 hp
 Main Brake: 2,000 hp (2) EMD D-79 DC Traction motor
 Auxiliary Brakes: Elmagco 6032

MUD PUMP #1

National 12-P-160 Triplex Pump Rated Power: 1,600 hp
 Stroke: 12" (305 mm)
 Input Power: (1) 1,600 hp EMD DC traction motor
 Pressure Rating: 5,000 psi (34.5 MPa)

MUD PUMP #2

National 12-P-160 Triplex Pump Rated Power: 1,600 hp
 Stroke: 12" (305 mm)
 Input Power: (1) 1,600 hp EMD DC traction motor
 Pressure Rating: 5,000 psi (34.5 MPa)

MUD TANKS SYSTEM

Three Tanks "Covered" w/ 1,691 bbls (268.8 m³) total capacity
 Comprised of 9 compartments, including pill tank
 Equipped with low pressure mixing system
 Agitators (7):
 twin mixers and (5) 6" (152mm) x 8" (203mm) x 14" (356mm)
 Shakers: (2x) FLC 514 Derrick Flow Line cleaners
 Trip Tanks: 37.8 bbls (6 m³)

MUD GAS SEPARATOR (Degassers)

Poorboy twin 36" (914mm) w/ 8" (203mm) vent lines
 6.5" (2m) fluid head, independent tanks
 MI Swaco vacuum degasser
 NACE trim

BOP (NACE Standards, critical sour)

T3 Model 7022 13-5/8" (346mm) x 5,000 psi (34,500 kPa) Annular
 T3 Model 6012 (3) 13-5/8" (346mm) x 10,000 psi (68,950 kPa)
 Single Gate Ram Preventers.
 Gate valve 3" (76mm) Choke manifold 3" (76mm) 68,950 kPa
 Double gut choke manifold.
 BOP Handling System
Note: Alternate BOP Sizes are available

ACCUMULATOR

Valvcon 1079 L 6- station, (x2) pneumatic pumps
 (x2) electric triplex pump, electric remote.

TOP DRIVE

Tesco ECI 900 AC 500 Ton Max Speed: 193 rpm
 Load Rated: 1,000,000 lbs (445,000 daN)
 Input Power Rated: 900 Hp (670 kW)
 Continuous Drill Torque: 36,700 ft-lbs (4,976 daN-m)
 Max Torque (Make/Break): 56,000 ft-lbs (7,592 daN-m)

IRON ROUGHNECK

Varco ST-80 Conn. Range: 4-3/4" (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

National C-375 37-1/2" (952 mm)
 Rotary Load Capacity: 1,300,000 lbs (578,000 daN)
 Round Opening: 37-1/2" (952 mm)

CATWALK MACHINE

Pragma Hydraulic Power Catwalk

POWER SYSTEM

Three Caterpillar 3512C w/ Kato 1225 Generators.
 Total power available: 3,330 kW continuous to
 Rose Hill SCR system at 100% Load.

TUBULARS

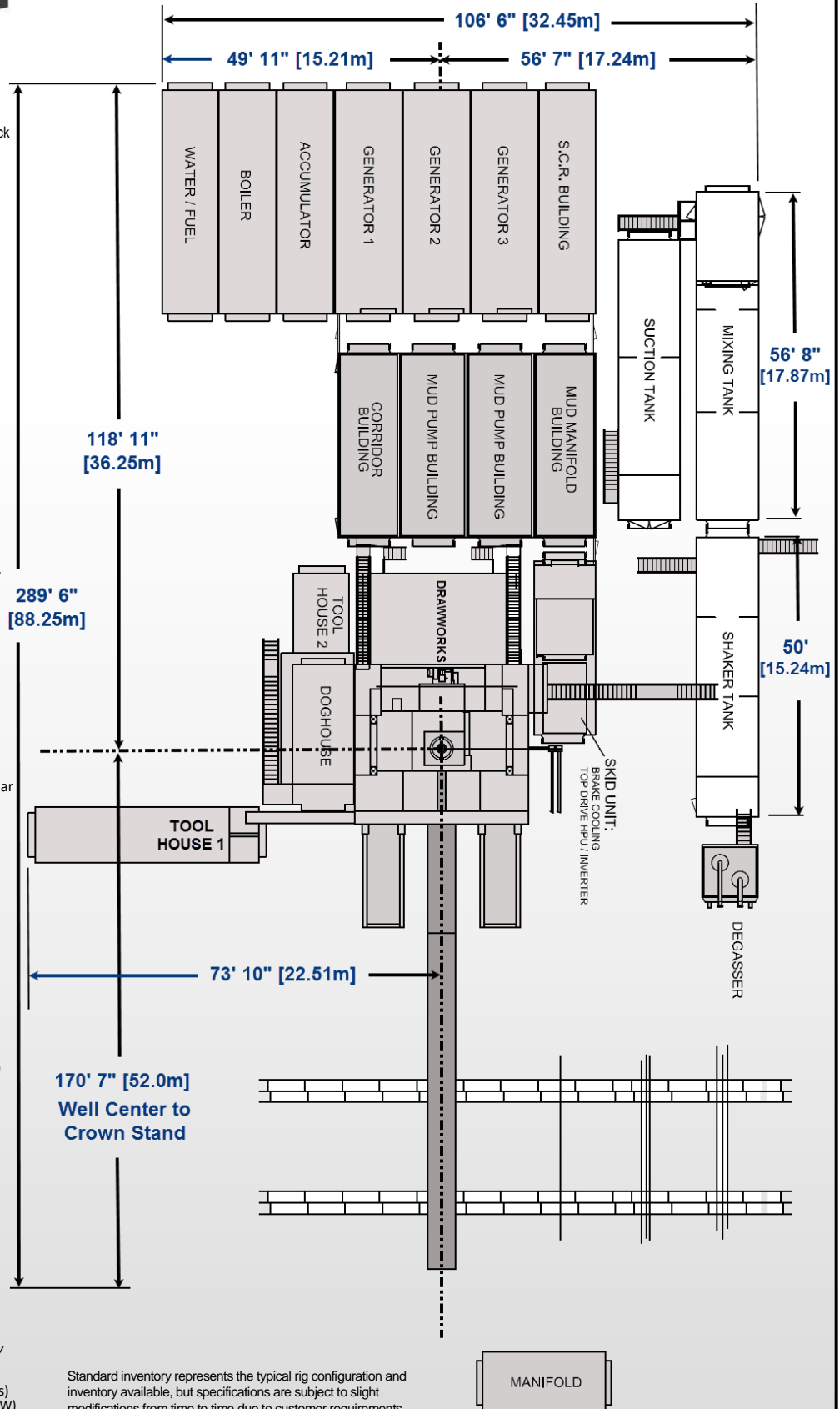
Drill Pipe: Supplied as needed, *per availability*
 Drill Collars and Heavy Weight: Supplied as needed, *per availability*

Miscellaneous

Water Tank: 687 bbls (82 m³) Fuel Tank: 7925 Gals (30,000 Liters)
 Boiler: Lister 100 hp (75kW) and AE SYS York Shipley 125 hp (93 kW)
 Full Winterization

TOOL / STORAGE / CAMP

Parts Storage Room and Tool House Room
 Rig Manager Trailer: One ATCO Skid mounted unit



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.