



RIG # 90

3,000 HP Triple Mast Drilling Rig

SUBSTRUCTURE

Lee C. Moore HMRII hydraulically raised, self-elevating, w/ integrated Lee C Moore Moving System
 Floor Height: 30 (9.14m) Clear Height: 24' (7.35m)
 Rotary Capacity: 1,315,000 lbs (584,956 daN) Max Pipe Setback: 1,000,000 lbs (444,800 daN)
 Casing Capacity: 1,250,000 lbs (556,000 daN) irrespective of setback

MAST

145' (44.2m) Lee C. Moore HMRII hydraulically raised design Static Hook Load: 1,250,000 lbs (556,000 daN)
 Drill Line: 1-5/8"
 Racking Capacity: 26,200' of 5-1/2" DP (8,000m of 140mm DP)

BLOCK-HOOK

Lee C Moore 650 Tons Becket rated at 1,300,000 lbs (578,268 daN)

DRAWWORKS

Pacific Rim Engineered Products 3,000 Hp AC Drawworks, Grooved for 1-5/8" (41.3mm) drilling line
 Input Power: (2x) Amerimax 1,500 hp induction motor (2x) Svenborg BSFK series calliper brakes for emergency braking

TOP DRIVE

Tesco 750 ton ESI 1350 Max Speed: 220 rpm
 Hoisting Capacity: 500 tons
 Input Power Rated: 1350 Hp (1,007 kW)
 Continuous Drill Torque: 72,000 ft-lbs
 Max Torque (Make-Up): 84,000 ft-lbs
 Max Torque (Break-Out): 100,000 ft-lbs

FLOOR TOOLS

-Rotary Table
 HHF 37-1/2" (952.5 mm) round opening.
 Rotary Load Capacity: 1,315,000 lbs (584,956 daN)
 -Iron Roughneck
 Varco ST-100
 Diameter Range: 4" (101 mm) to 9-3/4" (247 mm)
 Maximum Make-Up Torque: 100,000 ft-lbs (135,582 Nm)
 Maximum Break-Out Torque: 120,000 ft-lbs (162,698 Nm)
 -Rotary Mousehole
 Keystone Rotating Mousehole

MUD PUMPS (3)

Gardner Denver PZ-2400 Triplex Pump Rated Power: 2,400 hp Stroke: 14" (356 mm)
 Input Power: (1) 2,400 hp (1,790 kW) AC induction motor Pressure Rating: 7,500 psi (51.7 MPa)

MUD TANKS SYSTEM

Three Tanks w/ 1,761 bbls (280 m3) total capacity
 (6x) Centrifugal Pump 6" (152mm) x 8" (203mm) x 14" (356mm)
 Direct drive centrifugal mix pumps. Electric over air operated valves.

SCALPING TANK

Main Tank 176 bbls (28 m3) with two 6" (152mm) x 5" (127mm) x 14" (356mm) direct drive centrifugal transfer pumps.

SHAKER

(4x) Derrick Dualpool Shakers mounted on the scalping tank.

MUD GAS SEPARATOR

6' x 23' Swaco SMGS
 NACE trim

BOP (NACE Standards)

As Required by Contract

ACCUMULATOR

360 gallon, 3,000 psi (21,000kPa) 7 - station, with PLC electric remote.
 Flare tank with igniter.

SELF MOVING SYSTEM - WALKING

Lee C. Moore Rig Rover walking system capable of moving in the x, y and rotate. 200' (61m) in utility suitcases.

HYDRAULIC CATWALK

CanRig Hydraulic Power Catwalk
 Cycle Time under 60 secs

POWER SYSTEM

Five Caterpillar 3512C generators sets with CAT's bi-fuel system rated at 1,475 Hp (1,100 kW) output each, GE (Converteam) generator controls and VFD's
 Total power available: 7,375 Hp (5,500 kW) continuous.
 Rig is capable of running on highline power through operator supplied transformer
 Dual Fuel Compatible (Diesel / Natural Gas)

TUBULARS

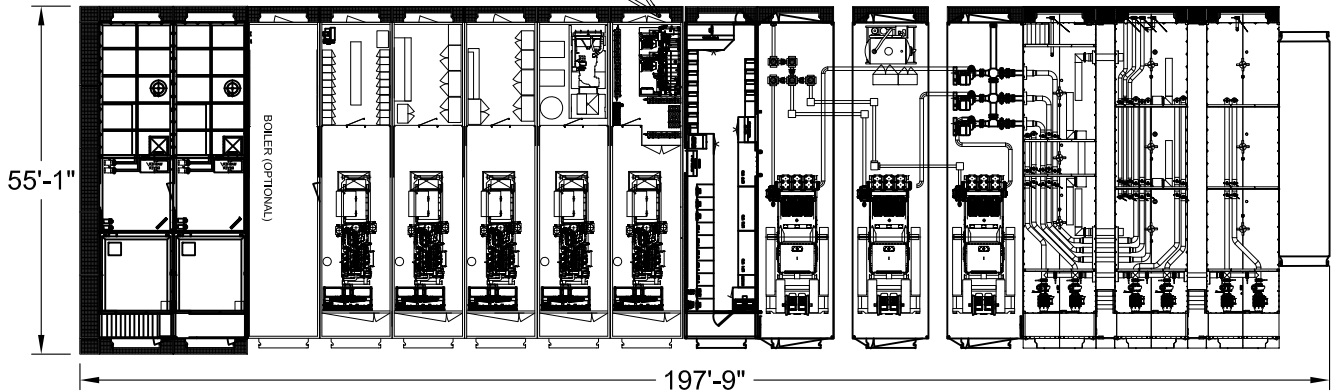
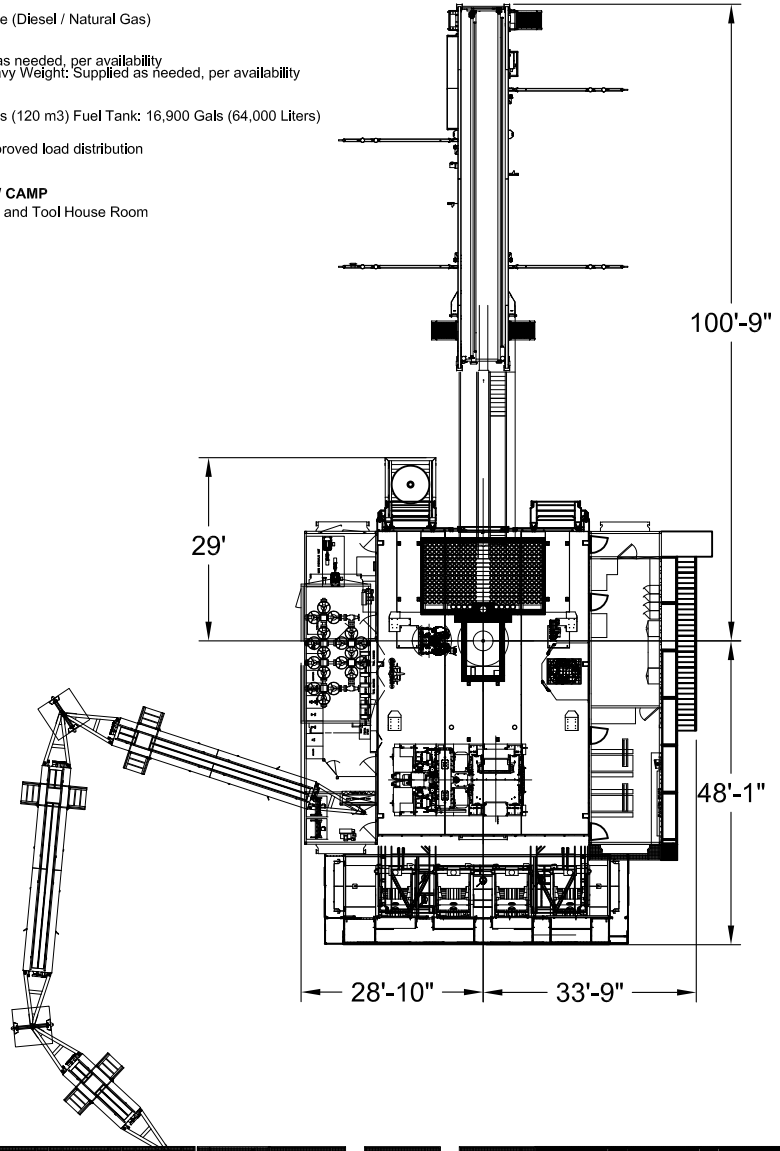
Drill Pipe: Supplied as needed, per availability
 Drill Collars and Heavy Weight: Supplied as needed, per availability

MISCELLANEOUS

Water Tank: 755 bbls (120 m3) Fuel Tank: 16,900 Gals (64,000 Liters)
 Genie
 Steel matting for improved load distribution
 240 Gallon Vacuum.

TOOL / STORAGE / CAMP

Parts Storage Room and Tool House Room
 Rig Manager Trailer



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.