



AKITA
DRILLING

RIG 20

850 hp Triple Mast Drilling Rig

SUBSTRUCTURE

Hodgson Single Piece Substructure
 Floor Height: 16' (4.88m)
 Clear Height: 13'-3" (4.85m)
 Rotary Capacity: 500,000 lbs (222,400 daN)
 Max Pipe Setback: 400,000 lbs (178,000 daN)
 Casing Capacity: 450,000 lbs (200,000 daN) irrespective of setback

MAST

133' (40.5m) cantilever design
 Static Hook Load: 500,000 lbs (222,400 daN)
 Drill Line: 1-1/8"
 Racking Capacity: 13,100' of 5" DP (4,000m of 127mm DP)

BLOCK

EMSCO RA-44-5 Load Rated: 700,000 lbs (311,000 daN)

DRAWWORKS

RigMaster E-850 550,000 lbs (244,650 daN) w/ 10 lines
 Input Power: 850 hp
 Main Brake: Eaton 236 WCB disc brake on drum shaft

MUD PUMP #1

Lewco WH-1300 Triplex Pump Rated Power: 1,100 hp
 Stroke: 12" (305 mm) 110 SPM
 Input Power: (1) 1,100 hp (820 kW) GE 752 Hi-Torque
 Pressure Rating: 4,000 psi (27.6 MPa) w/ 5" (127mm) liners

MUD PUMP #2

Lewco WH-1300 Triplex Pump Rated Power: 1,100 hp
 Stroke: 12" (305 mm) 110 SPM
 Input Power: (1) 1,100 hp (820 kW) GE 752 Hi-Torque
 Pressure Rating: 4,000 psi (27.6 MPa) w/ 5" (127mm) liners

MUD TANKS SYSTEM

Two Tanks w/ 1,088 bbls (173 m³) total capacity
 Comprised of 6 compartments, including pill tank
 Centrifugal Pump 6" (152mm) x 5" (127mm) x 14" (356mm)
 w/ 14" impeller, pill tank, mix building
 w/ (2) 6" (152mm) x 5" (127mm) Centrifugal Pumps for
 mixing, charging and mud roll.
 Shakers: (2x) Derrick Hyperpool shakers

MUD GAS SEPARATOR (Degassers)

NACE trim

BOP (NACE Standards, Sour Service Equipment)

Shaffer Spherical 11" (279mm) x 5,000 psi (34,500 kPa) Annular Preventer
 (1x) 11" (279mm) x 5,000 psi (34,500 kPa) Double Gate Ram Preventer
 And (1x) Ram Preventer.
 Choke Manifold: Cameron 3" (76mm) x 5,000 psi (34,500 kPa)
 BOP Handling System

Note: Alternate BOP Sizes are available

ACCUMULATOR

ECS 530L 116 gallon, 3,000 psi (21,000kPa) 6- station,
 With PLC electric remote.

TOP DRIVE

Tesco 350 EXI 600 350 Ton Max Speed: 220 rpm
 Input Power Rated: 600 Hp (447 kW)
 Continuous Drill Torque: 30,000 ft-lbs (4,067 daN-m)
 Max Torque (Make/Break): 45,000 ft-lbs (6,101 daN-m)
 w/ integrated swivel rated at 700,000 lbs (311,360 daN)

IRON ROUGHNECK

NOV IR3080 Conn. Range: 3-1/2" (89 mm) to 8-1/2" (216 mm)
 Spin Speed: 80 RPM -nominal on 5-1/2" (140 mm) Drill Pipe
 Spin Torque: 2,250 ft-lbs (3,050 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-275 27-1/2" (698 mm)
 Rotary Load Capacity: 500,000 lbs (222,400 daN)
 Round Opening: 27-1/2" (698 mm)

CATWALK MACHINE

Hydraulic Power Catwalk

POWER SYSTEM

Three Caterpillar 3508B w/ Kato 1050 kW (1,400 hp) Generators.
 575 Volt AC Generators powering a Hill Hayes model 1601 SCR and
 Allen Bradley MCC.
 Total power available: 3,150 kW continuous.
Dual Fuel Compatible (Diesel / Natural Gas)

TUBULARS

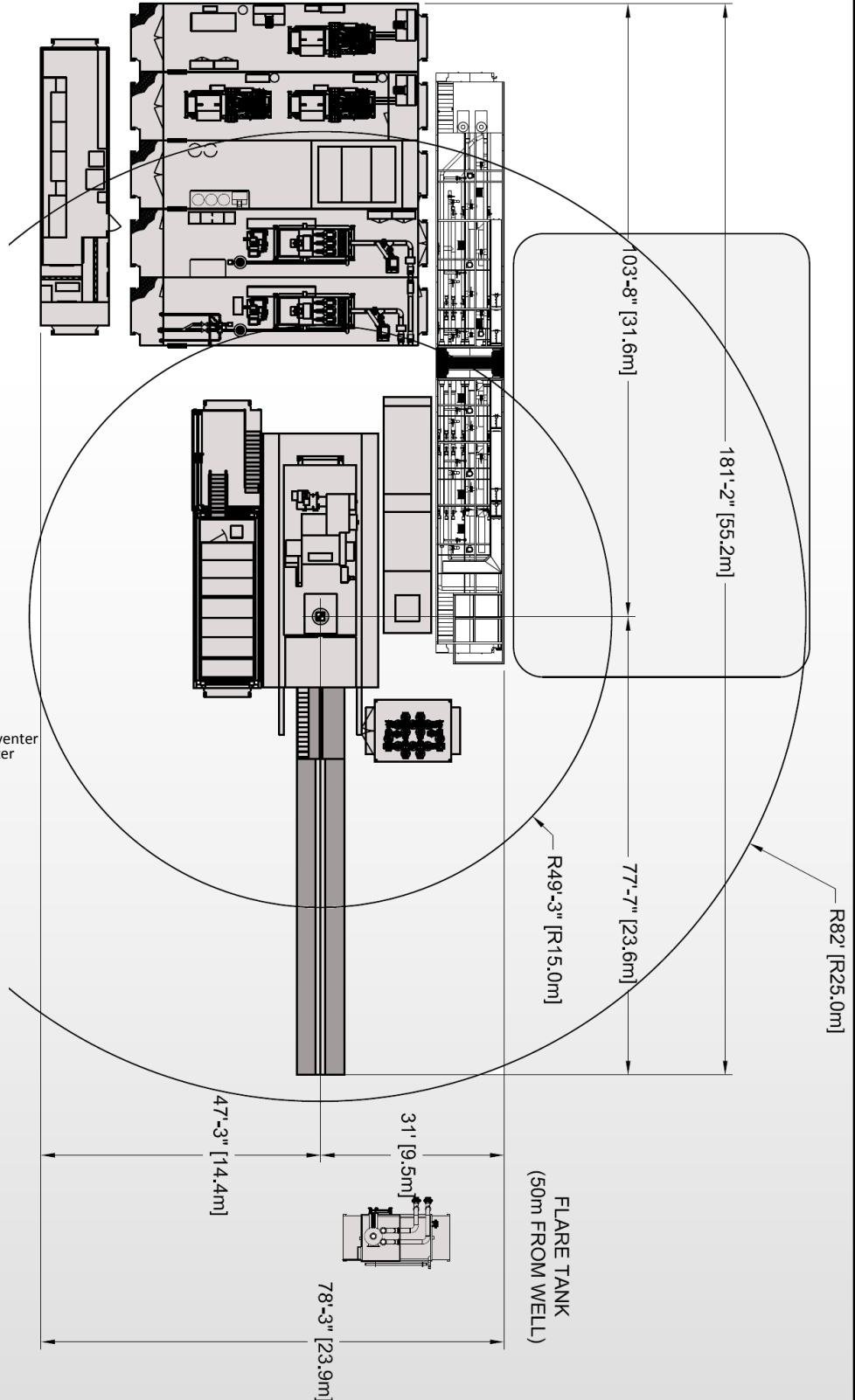
Drill Pipe: Supplied as needed, *per availability*
 Drill Collars and Heavy Weight: Supplied as needed, *per availability*

Miscellaneous

Water Tank: 490 bbls (78 m³) Fuel Tank: 6,900 Gals (26,000 Liters)
 Boiler and Full Winterization

TOOL / STORAGE / CAMP

Parts Storage Room and Tool House Room
 Rig Manager Trailer



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.