

RIG 24

RIG

Range I Foremost Explorer II SR29
Rig Motor: Caterpillar 3406 PTO HPU 800m depth capacity
Static hook load – 83,000lbs/37,000 daN
Max. Casing Diameter – 20"/508mm
95.25mm (3 3/4") – 311mm (12 1/4") hole size
Dimensions: 3.1m L x 4.6m W x 3.7m H

MAST

Foremost Explorer II SR29
Top Drive: Foremost 240 – torque rate 0-10,300 ft. lbs. /
0-14,000 N-m
Rotation 0-150 rpm
Floating cushion connector sub
Top drive tilts 90 degrees hydraulically to assist in
making/breaking and loading of drill pipe Hydraulically operated mud
saver valve mounted
at swivel
Pull Down – 56,000lbs/ 25,000 daN
Petrol wrench – 2 7/8" – 7"
Swivel: Integral mud 4,500psi/ 31,000kPa
Hydraulically actuated pipe wrench produces 16,950 Nm
(12,500 ft lbs) of torque to break tool joints Hydraulically operated slot
wrench used to hold back
down hole drill strings and back up tool joints while breaking out

PIPE HANDLING

Pipe skate
Automated pipe handling
system permits a "hands off"
policy for the rig crew
Range 1 pipe capable – 89-273mm (3 1/2"-10 3/4") GVW:
11,380kg; 11.6m L x 2.8m W x 2.4m H

SUB-STRUCTURE

I beam construction
Class 1A or Class 2A capable
GVW: 33,245kg; 15.9m L x 3.7m W x 2.1m H

HYDRAULICS:

Single high-pressure Rexroth closed loop hydraulic pump to
operate top drive
Joystick controlled – output 5,000psi/34,450kPa with variable
displacement of 0-568L/min (0-150 gal/min)
Single high pressure Rexroth open loop hydraulic pump to
operate feed system
Joystick controlled – output 20,680 kPa (3000psi) with a
variable displacement of 0-568L/min (0-150 gal/min)
Additional variable displacement Rexroth open loop pumps for
engine and hydraulic cooling fans, pip handling system and set-
up functions – output 17,225kPa (2500psi)

MUD PUMP

National Oilwell 560 Triplex – 500HP Caterpillar 3408
Allison Transmission
Max strokes – 130spm
Min strokes – 50spm
Pressure rating – 2,500psi w/ 5" liners Pre-charge 11"
shaft-driven
Belt-driven
GVW: 42,360kg; 11m L x 3.8m W x 3.2m H

MUD TANK

Water Pump: 1 – 3"x4"
Water Tank - 11.6m³
Total mud volume – 50.5m³
Electric Mixing Pumps - 2 – 5"x6" Mission 50hp Shale
Shaker: MiSwaco linear motion
GVW: 39,650kg; 15.5m L x 4.0m W x 3.4m H

GENERATOR

Generator: Caterpillar 3406 – 350KW Generator Fuel
Storage: 10,000L

RIG MANAGER'S SHACK

56' skid trailer
GVW; 26,250kg; 17.1m L x 3.8m W x 4.0m H

WINTERIZATION

100HP Dupre
Fully enclosed fuel storage mounted in 32'
tandem trailer
Water Tank Volume: 13m³
Fuel Tank Storage: 3,300L
GVW: 17,220kg; 9.8m L x 3.7m W x 3.2m H

TUBULARS

Pipe Connections:
Top drive – 4" FH
Drill pipe – 4" FH
Drill collars – 4" FH
Core pipe – 4 1/2" CDP

CORE PIPE

700m of 4 1/2" L80 core pipe
3 1/2" ID x 4 1/2" OD

