

T-221 FAST MOVING DESERT RIG

TECHNICAL OVERVIEW

Rating	1,500 HP	1,100 kW
Hook load	800,000 lbs @ 12 lines	362 t
Drilling depth theoretical	18,000 ft	5,500 m

Year of construction 2011

MAST

Type	Bentec Open face self-elevating	
Height	142 ft	43.3 m
Base	23 ft x 16 ft	7 x 5 m
Hook load	800,000 lbs	362 t
GNC	1,000,000 lbs	454 t

SUBSTRUCTURE

Type	Bentec Parallel lift	
Height	30 ft	9.15 m
Rotary load	800,000 lbs	362 t
Setback load	500,000 lbs	227 t

DRAWWORKS

Type	Bentec E-1500-AC-SG, single speed gearbox	
Horsepower rating	1,500 HP	1,100 kW
Max. line pull	78,600 lbs	35.8 t
Drilling line diameter	1 3/8"	35 mm
Auxiliary brake	Disc brake + power breaking via AC motors	

TOP DRIVE

Type	Bentec TD-500-HT	
Capacity	1,000,000 lbs	454 t
Continuous Torque	46,500 ft.lbs	63,000 Nm

ROTARY TABLE (ASSISTING)

Type	Kerui ZP-375	
Table opening	37 1/2"	952.5 mm

DRIVE GROUP

Engine type	Caterpillar 3512B	
Horsepower rating	4 x 1,476 HP	
Generator type	Caterpillar SR4B	
Generator rating	4 x 1,500 kVA	
Voltage	600 V / 60 Hz	
VFD unit	Bentec 5 VFD bays	



MUD SYSTEM

Pump type	Bomco F-1600, 7" x 12"	
Horsepower rating	2 x 1,600 HP	
Standpipe pressure	5,000 psi	350 bar
Shale shaker(s)	3 pc, Brandt King Cobra	
Active mud system	1,600 bbl	225 m ³
Reserve mud system	940 bbl	150 m ³
Water capacity	880 bbl	140 m ³

BOP EQUIPMENT

Annular	13 5/8" x 5,000 psi	
Double ram	13 5/8" x 10,000 psi	
Single ram	13 5/8" x 10,000 psi	

IRON ROUGHNECK

Type	Blohm & Voss "Floorhand"	
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CAMP EQUIPMENT

Full rig and base camp

ADDITIONAL INFORMATION

- Bentec Drillers Controls System complete with joystick drawworks control.
- Hydraulic catwalk system.
- Winterization package:
- Substructure enclosures
- Racking board wind protection
- Wind walls around the shaker area
- Enclosure around the mixing area