

Rig 34

General Discription

Type	RD 20 Range III, Atlas Copco, Carrier Feed System
Pulldown	30,000 klb. (13,608 kg)(133.45 Kn)
Pullback.....	120,000 klb. (54,446 kg)(533.79 Kn)
Fast Feed Up (regen. on)	106 ft/min. (32.29 m/min.)
Fast Feed Up (regen. off)	72 ft/min. (21.9 m/min.)
Fast Feed Down.....	180ft/min.(54.9m/min.)
Drill Feed Rate.....	29 ft/min. (8.8 m/min.)
Pullback Cable	1-1/4 in. (32 mm) cable
Pulldown Cable	7/8 in. (22 mm) cable
Carriage Sheaves.....	32 in. (813 mm) dia. lightweight, high strength Nylatron

Derrick

Derrick Height.....	62 ft. 6 in. (19.05 m)
Dimension	L 61 ft. 11-1/2 in. (18.88 m)
	XW 48-1/2 in. (1231.9 mm)XW 41 in. (1041.4 mm)
Top of Table to Spindle.....	51 ft. 6 in. (15.70 m)
Table to Ground (rig on tires)	44 in. (1117.6 mm)
Table to Ground (jacks extended)...	92 in. (2336.8 mm)

Carrier Weight & Dimensions

Height Derrick Down.....	13 ft. 10 in. (5.76 m)
Height Derrick Up	62 ft. 6 in. (19.05 m)
Width: 8 ft. 4 in.	(2.51 m)
Weight.....	88,000 lb. (40,000 kg) less tooling

Carrier & Engine

Make.....	Caterpillar
Model.....	CAT C13380 HP (283kw)
Transmission.....	Fuller RTO-14908LL, 10-speed forward,3-reverse
Front Axles.....	22,000 lb. (9,979 kg) capacity each axle. Two steering
Axles with	44,000 lb. (19,958 kg) total capacity.
Front Springs.....	44,000 lb. (19,958 kg) capacity leaf type
Rear Axles.....	Eaton DP-451P (46,000 lb. (20,865 kg)
Tandem Suspension.....	Hendrickson R-450

Pony Base (Allows Carrier To Locate Above BOP)

Style	Hydraulically Raised Pony Base
Height & Width.....	H-135.827"X W-167.323"X L458.661

SubStructure

Clear Height, Table Base to Groun	151.575"(12.63 Ft)
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Centralizer Table

Type.....	(2) Manually operated jacks for easy leveling with removable facility
Features.....	Master bushing similar to API 17-1/2in, removable to gain 25-1/2in
Capacity	Handles 20in casing

Break Out Wrench

Type.....	Hydraulically powered, self-adjusting
Rating.....	20,000 ft-lb. (27,120 N-m) torque

Drill Pipe Changer

Type.....	Hydraulically Powered holds (1) 4-1/2in & (1) 5-1/2in drill collar Capacity
.....	Set to handle 40Ft drill pipe or drill collars

Hoist

Hyd Casing Hoist Capacity.....	Lifting Capacity: 7,500 lb. (3,402 kg) max(33.36 Kn)
Hyd Jib Hoist Capacity.....	Maximum Lifting Capacity: 4,000 lb. (1,814 kg)(17.79 Kn)

Rotary Head & Rotation

Model.....	4SF-2-12 spur gearhead
RPM.....	0 to 120
Torque.....	8,000ft-lb.(10,848 N-m) maximum
Swivel.....	3 in. (76-mm) swivel with chevron packing
Piping	Circulation piping rated at 3000 psi (10.3 MPa) WP 3 in manifold for air

Deck Engine & Power Pack

Model.....	Caterpillar C11 acert
HP/RPM.....	385hp/287bkw @ 2,100 RPM
Gear Box Drive	Mounted on a 4-hole pump-drive gearbox
Input & OutPut	Engine input at 1,800 RPM increased to 2,490 RPM by pump drive
Hyd Main Pump.....	(2) Piston Pumps 48.5 Gpm for main Rotary Head & Feed System
Hyd Vane Pump Stage 1	(1) 52.2 Gpm, operates cooler fan
Hyd Vane Pump Stage 2	(1) 30.3 Gpm, operates secondary equipmen
Hyd Piston Pump.....	(1) 12.5 Gpm Runs the drilling feed circuit
Hyd Auxillary Pump.....	(1) 34 Gpm operates the Hoists



Power Generation

Make.....	(1) Olympian GEH220-2
Capacity	Perkins 1306C-E87TAG4 1500/1800 Rpm
Generator	(1) CAT LL5014F 200 Kva, 380-415 V @ 50Hz
Capacity.....	200/250 Kva, 380/480V, 50-60Hz, 1500-1800Rpm

Air General

Make.....	Screw Compressor
Model.....	PDS 175S
Capacity.....	125 Cfm
Driven By	3 cyl, 4 Stroke, Wt Cooled

Break out Wrench

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Rating	20,000 ft-lb. (27,120 N-m) torque

Mud System

Mud Pump.....	Weatherford MP5 (6-1/2"X7-1/2" Liner)
	Driven by MTU oil & gas series 60 tier 3 diesel power
Power Rating	500 HP
Pressure rating	3000 Psi
Mud Volume.....	Active Tank, 253 Bbbls
Suction Tank.....	124 Bbbls
Pill Tank.....	28 Bbbls
Trip Tank.....	9 Bbbls
Shale Shaker.....	1X DFE SCR-HG
Disilter.....	TSC Offshore Mdl-HM 100X8C

Well Control

BOP Annular.....	Intergrated Equipment-3K, 9"
BOP DbL.....	Intergrated Equipment -3K-9"
BOP Closing	CPC 11 Gal X 12 Bottles
Choke Manifold...	2-1/16" 5K

Enhancement

Pipe Loader.....	Oztec Equipment Manufacturing
Model.....	OZTEC
Max Tubular Dia.....	13-3/8"
Maximum L.....	45 Feet
Max Tubular Wt.....	6000 Lbs
Pipe Tub.....	(2) Hydraulic Operated

Ironroughneck

Make.....	Oztec Equipment manufacturing
Rated Clamping	31,000 lbs @ 2500 Ps
Rated Torque.....	20,000 Ft Lbs @ 2250 Ps