



ROWAN MIDDLETOWN

Design : LeTourneau Technologies 116-C Class Jack-Up

Built : Vicksburg, Mississippi

Year Built / Last Upgrade : 1980 / 2011



Premium Jackup

General Description

Classification	ABS, A1 Self-elevating Drilling Unit.
Flag	Marshall Islands.
Overall Dimensions (Hull)	243 ft. long x 200 ft. wide x 26 ft. deep.
Legs	3 x 410 ft. long, triangle.
Gear Unit Height	24 ft.
Longitudinal Leg Centers	129 ft.
Transverse Leg Centers	142 ft.
Drafts	15.2 ft. load line draft.
Accommodation	90 persons.
Displacement	22,628 kips operating.
Variable Deck	5,331 kips operating / 3,385 kips transit.
Transit Speed	average 5 knots (min. 150 MT bollard pull / towboat).
Operating Water Depth	313 ft.
Maximum Drilling Depth	25,000 ft.

Drilling Equipment

Derrick	Lee C Moore, 30 ft. x 36 ft. Base, 175 ft.
Hookload Capacity	1,250,000 lbs. on 12 Lines static hook load capacity.
Top Drive	Varco TDS-3 with 500 ton upgrade, 1,000 Hp AC Motor Output Torque 43K ft. lbs.
Cantilever / Drill Floor	52 ft. aft of transom.
Travelling Block	National with 500 ton Model #660H500.
Crown Block	National / 760 FA 583 ton, Capacity: 1,250,000 lbs.
Drawworks	National Oilwell 1625-DE by (2) 3,000 hp AC Motors with 1-1/2 inch Drill Line;
Auxiliary Brake	Elmago 7838.
Rotary Table	National C375, Load 1,200,000 lbs.
Cementing Eqpt.	Haliburton / SKD-4 Modular (2) triplex pumps, 15K psi with 4 inch plungers.
Torque Wrench	Varco TW-61 Iron roughneck / Hawk spin masters spinners.

Mud System

Mud Pumps	(3) National 12-P-160 Triplex, 1,600 hp driven by (2) GE 752.
HP Mud System	Rated for 5,000 psi
Mud Pits	1,466 bbls total, (3) mud pits + (1) slugging tank.
Mud Mixing Pumps	(2) TRW Mission Magnum 3K gpm.
Desanders & Desilters	(3) 12" cones f/ desander section, discharge to lower shaker Screen & Derrick Model 2M4890F-3MADD w/20x4".
Degasser	(1) Derrick / Vacuflo 1200 Mud Degasser, 1,100 gpm.
Mud Processing Pumps	(1) TRW Mission magnum (1) 75 hp and (1) 150 hp.
Shale Shakers	(3) Derrick FLC - 513, flow rate 500 gpm

Storage Capacities

Fuel Oil	2,670 bbls.
Liquid Mud	2,197 bbls total (3 pits + 1 slug pits).
Base Oil	7,19 bbls.
Brine	5,29 bbls.
Drill Water	10,431 bbls (incl. combo tanks).
Potable Water	1,078 bbls.
Bulk Material	(mud + cement) 10,880 cu.ft.
Sack Storage	3,500 sacks.
Maximum Drilling Payload	6,422,160 lbs.
Sand Traps	241 bbls.
Pipe Storage (Main)	2,040 sq. ft x 7 ft. high.
Pipe Storage (Cantilever)	2,400 sq. ft x 7 ft. high.

BOP & Well Control

BOP Rams	(1) 13-5/8" 10K Cameron Type U Single. (1) 13-5/8" 10K Cameron Type U Double with Blind Shear, w/4-1/16" 10K Outlets.
BOP Annular	(1) 13-5/8" Hydril 5K.
BOP Handling	(2) J D Neuhaus / EH 37.5 Ton each hoist.
Diverter	27.5" x 37", Regan KFDJ 2K psi.
Control Unit	3K psi CAD unit (28) 15 gal. bottles with reservoir tank of 650 Gal.
Choke Manifold	(22) 3-1/16" 10M manual, H2S trimmed 'HpT' valves (2) 2-1/16" 10M manual 'HpT', H2S trimmed valves. (1) 3" 10M check valve, H2S trimmed.

Power & Machinery

Main Power	(6) Caterpillar D-399PC diesel engines rated at 1,325 hp. (4) Kato Generator rated at 1050 kW.
Emergency Power	(1) Caterpillar D-399 diesel engines rated at 1,325 hp. (1) Kato Generator rated at 1,050 kW.

Cranes

Deck Cranes	(4) LeTourneau PCM-120 Pedestal Cranes.
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Special Features & Other Information

Helideck	Sikorsky S-61.
Conductor Tens	Double Acting with 50 Ton SWL, 48-inch Bore size rated at 210 BAR Maximum Pressure.
Jacking	4 pinions per chord, 4 x chords per leg, 600 kips per pinion for normal operation and 338 kips per pinion for normal Jacking.



These specifications are intended for general reference purposes only, as actual equipment and specifications may vary based upon subsequent changes, the contract situation and customer needs. All equipment shall be operated and maintained at all times, in compliance with ARO Drilling standard operating manuals, policies and procedures, and within its stated operational limits or continuous rated capacity, in order to assure maximum operational efficiency.

