



ARCH ROWAN

Design : LeTourneau Technologies 116-C Class Jack-Up

Built : Vicksburg, Mississippi

Year Built / Last Upgrade : 1981 / 2011



Premium Jackup

General Description

Classification	ABS, A1 Self-elevating Drilling Unit.
Flag	Marshall Islands.
Overall Dimensions (Hull)	243 ft. long x 201 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 ft. load line draft.
Accommodation	86 persons.
Displacement	22,369 kips operating.
Variable Deck	4,981 kips operating / 2,231 kips transit.
Transit Speed	average 5 knots (min.300 kips combined bollard pull).
Operating Water Depth	300 ft.
Maximum Drilling Depth	25,000 ft.

Drilling Equipment

Derrick	160 ft. Lee C. Moore 30 ft. x 30 ft. Base.
Hookload Capacity	1,250,000 lbs. on 12 Lines static hook load capacity.
Top Drive	National PS 2 750 A1,130 hp, Operating torque low gear 45k ft. lbs. continuous at 200 rpm, breakout torque 60,000 ft lbs, output torque 53,021 ft lbs.
Cantilever / Drill Floor	45 ft aft of Transom (52 ft with Cantilever extensions).
Travelling Block	National Oilwell, Model 660 H 500 Capacity, 500 Ton.
Crown Block	National 760 FA Capacity, 583 Ton.
Drawworks	National 1625-DE, Driven by (2) 2,000 hp AC Motors with 1.5-inch Drill Line.
Auxiliary Brake	NOV Baylor Elmago 7838, ER # 11073.
Rotary Table	National C 375,37-1/2 inch, Capacity 650 Ton.
Cementing Eqpt.	Halliburton HCS-25D cementing unit. Pressure rating 15,000 lbs. working pressure.
Torque Wrench	Varco / TW 61 torque wrench, (2) Spinmaster Model 950-H, Pipe spinner.

Mud System

Mud Pumps	(3) National Oilwell 12-P-160 ,Triplex, power rating 900 hp (2) GE 752'sGE 752 Shunt wound motors .
HP Mud System	Rated for 5,000 psi.
Mud Pits	(4) Mud Pits (1) Slug Pits 2,200 bbls Shaker Pits 299 bbls.
Mud Mixing Pumps	(2) Mission Magnum Cap. up to 3K gpm.
Desanders & Desilters	Derrick FLC 513/514 10" X 3" Cones Cap 1,500 gpm Derrick FLC 514 (20) 4" Cones @ 1,600 gpm.
Degasser	(1) Derrick Vacu Flo 1200 gpm rated 75 hp motor.
Mud Processing Pumps	(2) Mission Magnum Pumps 75 hp , (1) 100 hp, (1) 150 hp.
Shale Shakers	(3) Derrick Model FLC 503, (1) Derrick Model FLC 513.

Storage Capacities

Fuel Oil	2,273 bbls.
Liquid Mud	2,201 bbls total (4 pits + 1 slug pits).
Base Oil	7,96 bbls.
Drill Water	11,703 bbls (incl. combo tanks).
Potable Water	1,078 bbls.
Bulk Material	(mud + cement) 10,880 cu.ft.
Sack Storage	1,500 sq. ft.
Maximum Drilling Payload	4,981,050 lbs.
Sand Traps	299 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) Cameron Type "U" Single 13-5/8" 10K (1) Cameron Type "U" Double 13 5/8" 10k Cameron Type U w/Blind Shears w/Tandem Boosters w/4-1/16" 10k side Outlets.
BOP Annular	(1) 13-5/8" Hydril 5k, 30" Hydril 1k, 21-1/4" Hydril 2k.
BOP Handling	(2) JD Neuhaus, Winches Model 37.5 Ton each hoist.
Diverter	Regan KFDJ 2000 psi, 27-1/2" x 37".
Control Unit	3K psi BOP Control Unit CAD - 120524910 (28) 11 gal. bottles with reservoir tank capacity 650 gal.
Choke Manifold	(20) EEC 3-1/16" Gate valves model HpT H2S Trimmed 10K psi; (2) EEC 2-1/16" Gate valves model HpT H2S trimmed 10K psi; (2) Flo-Torq HCR chokes 1-9/16" model E-S 10K psi; (2) Manual chokes model E-H2 3-1/16".

Power & Machinery

Main Power	(6) Caterpillar D-399 diesel engines rated at 1,200 hp. (6) KATO Generator.
Emergency Power	(1) Kato, 1030 kW (930 kW) generator.
Power Distribution	(7) GE / Thyristor type rated at 1,600 Amps & 1,250 Amps.

Cranes

Deck Cranes	(4) Letourneau PCM-120 AS - 50 TON.
--------------------	-------------------------------------

Special Features & Other Information

Helideck	Sikorsky S-61N helicopters (Aviation Spec.CAP 437).
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.



