



# MONARCH Rig Specifications

## DESIGN:

ABS Classed Four Column Stabilized Mat-Supported Submersible  
Built Goldman Shipyard 1982, Upgrade 1998, 2006, and 2014

## MAIN DIMENSIONS:

Length, Main Deck.....	116 ft.
Length, Mat .....	199 ft.
Breadth, Main Deck .....	48 ft.
Breadth, Mat .....	195 ft.
Depth, Mat.....	12.5 ft.
Depth from Main Deck.....	116 ft.
Skirting .....	2 ft.
Drilling Envelope.....	50 ft. aft and 15 ft. from centre line
Draft, Transit (Keel) .....	10 ft.
Helideck rating.....	12.6 tons - For Sikorsky 92

## DESIGN CRITERIA:

Operating water depth.....	10 ft. to 85 ft.
Max. Rated drilling depth .....	25,000 ft.

## STORAGE CAPACITIES:

Fuel oil .....	2,750 bbls
Lube Oil.....	No storage facilities
Drill water .....	5,500 bbls
Potable water.....	1,140 bbls
Liquid mud (Active).....	1450 bbls
Mud process Tank.....	352bbls
Bulk mud.....	4,800 ft <sup>3</sup>
Bulk cement.....	4,800 ft <sup>3</sup>
Sack storage .....	3,360 sacks

## MAXIMUM GROSS VARIABLE LOAD:

Variable Deck Load (Operating)	4000 kips
Variable Deck Load (Transit)	1500 kips
Variable Deck Load (Storm)	4000 kips

## ACCOMMODATION:

Air conditioned cabins for 108 personnel (upgradable to 116 personnel).  
2 X 58 Man Life Boats + 1 X 65 Man Life Boat

## POWER EQUIPMENT:

Main Engines: Three (3) EMD Model 12E9 Engines - 7200 hp total  
Power Management: Five (5) Bay ISC SCR System; Three (3) ITC 750kVA Transformer  
Emergency Use: One (1) GM 12V71 Engine - 350kW

## DRILLING EQUIPMENT:

Drawworks:	National 1320UE Double Drum Powered by Two (2) EMD D-79 motors with Baylor Eddy Current Brake Model 7838
Derrick:	Cantilever Derrick Services – 149 ft. clear height x 30 ft. wide base, 1,670,000 pounds
Crown Block:	Derrick Services 650 M/ tons, 8 x 60" sheaves for 1-3/8 inch drilling line
Traveling Block:	National block, 650 tons, 7 x 60" sheaves for 1-3/8 inch drilling line.
Top Drive:	GDM 500 DC 500 st 800 HP GE 752 Electric Motor
Rotary Table:	National Model C-375 with EMD D-79 Electric Motor

## BOP & DIVERTER EQUIPMENT:

BOPs & Diverter:	One 29-1/2" x 500 psi Shaffer Model 500 MSP diverter. One 21-1/4" x 2,000 psi Annular. One 21-1/4" x 2,000 psi Single Ram BOP. One 13 5/8" JIANGSU XINDE PETROLEUM 10M Annular. One 13-5/8" JIANGSU XINDE PETROLEUM 15M Double Ram BOP. One 13-5/8" JIANGSU XINDE PETROLEUM 15M Single Ram BOP
BOP Control System:	CAD Koomey accumulator unit with 370 Gallon capacity with Remote control panel at Drillers Cabin, Tool pusher Office.
BOP Crane:	Two (2) 37.5 Ton BOP Handling Crane

## MUD CIRCULATION SYSTEM:

Mud Pumps:	Three (3) National 12-P-160 Triplex pump with two (2) GE 752 DC Traction motors, 7,500psi max operating pressure.
Shale Shakers:	Three (3) Ruff Model SL4480 linear motion shale shaker
Mud Centrifuge:	One (1) MI Swaco Model 414 and One (1) MI Swaco Model 518 (Optional)
Desilters:	One (1) Ruff Model SLM4 with 20 x 4" Desilter and 3 x 10" Desander cones
Degassers:	One (1) Swaco Vacuum Degasser
Cuttings Dryer	One (1) Ruff Cuttings Dryer

## OTHER EQUIPMENT:

Cranes:	Two (2) Marathon Le Tourneau PC-120, 120 ft. Boom, rated at 50 short tons @ 25 ft. radius
Water Maker:	One (1) Water Maker - 70 m <sup>3</sup> /day
Air Compressors:	Two (2) Q-500 Bulk Air Compressor C/W Desiccant Receiver
Air Dryer:	One (1) Quincy QPNC0750– 750 CFM, 150 psi, refrigerated system
Cold Start Comp:	One (1) Quincy Model 34034 Simplex Reciprocating Air Compressor powered by a Lister Diesel engine @ 125 psi
Anti-pollution Equipment:	One Omni Pure 12 MXMP sewage treatment unit

## COMMUNICATIONS

Radio Equipment:	Furuno Marine VHF unit, Two (2) GMDSS SART units, One (1) EPIRB unit, One (1) Navtex Transceiver, One (1) Furuno Model 16-SSAS Inmarsat unit, and Ten (10) Marine Walkie Talkie Radios with chargers
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