



GENERAL

Name	: Beacon Atlantic
Flag	: Bahamas
Builder	: Yantai CIMC Raffles Offshore Limited
Designer	: Global Maritime & CIMC Raffles
Class	: DNV GL
Notations	: +1A1 Column Stabilized Drilling Unit(N), DRILL(N), HELDKSH(N), CRANE(N), DYNPOS-AUTRO, P OSMOOR-ATA, E0, CLEAN, ICE-T, WINTERIZED BASIC

PRINCIPAL DIMENSIONS

LOA Pontoon	: 106.75m
Beam	: 73.70m
Elevation of main deck	: 42.00m
Deck Box	
Length	: 88.15m
Width	: 73.10m
Elevation of box bottom	: 34.00m
Draft	
Operation Draft	: 21.00m
Survival Draft	: 19.00m
Transit Draft	: 10.10m
Displacement	
Displacement	: 32,700-45,700mT

DESIGN ENVIROMENT

Survival condition	: Hs=17.3m
Operation condition	: Hs=8.0m
Transit condition	: Hs=5.0m
Sea water temperature	: 0°C to 32°C
Outside air temperature	: -20°C to 35°C
Fatigue life	: 20 years

OPERATION AREA

World wide incl. NCS & UKCS

OPERATING PARAMETTERS

Water depth	: 500m (can extend to 1200m)
Drilling Depth	: 8,000m
VDL	: 4,000mT

TANK CAPACITY

Bulk barite/tanks	: 358m ³
Bulk Cement tanks	: 350m ³
Liquid mud (columns)	: 641m ³
Mud pits	: 674m ³
Brine tanks	: 632m ³
Base oil tanks	: 632m ³
Drilling water storage tanks	: 2,210m ³
Potable Water tanks	: 579m ³
Fuel oil tanks	: 3,608m ³
Stoptank	: 298m ³

DRILLING PACKAGE NOV

Derrick capacity	: 680mT (1,500,000Ibs/750 short ton)
Base	: 15m x 16m
Rotary Table	: 60-1/2"
Top Drive	: 1x680mT, 2x746kW, Break out 170 kNm, 7,500 psi
Draw works Active heave compensated, water cooled	: 680mT, 5750HP
Crown block	: 680mT
Catwalk machine	: 1 x main catwalk : 1 x aux catwalk
Finger board	: Triple 3xRange2 (or 2xRange3) - 273 stands of 5 7/8" DP and - 56 stands of 13 3/8" CSG and - 11 stands of 9 1/2" DC and - 1 BHA
Vertical pipe handler	: NOV Hydraracker (column racker)
BOP handing	: 300T SWL BOP Trolley/Elevator
Main roughneck	: Break out torque 200 kNm
Aux. Roughneck	: Break out torque 200 kNm
Knuckle boom Crane	: Rigging: 35mT @ 6.5-30m
Riser tensioner	: 8x54.5mT

BOP/WELL CONTROL

BOP	: 18 3/4" 15000psi 5 rams, 1 annular (space for second annular)
Marine riser	: 50' length, total of 500m
Slip joint	: 50' stroke length

MUD PUMPS

3x2200HP 9"x14" single acting triplex pumps, 7,500 psi

HELIDECK

1 x Helideck suitable for Sikorsky S-61N, Super Puma, Sikorsky S92

ACCOMMODATION

130 single cabins (According to NORSOK requirements)

MAIN POWER SYSTEM

Main Generator Set	: 6 x 5,535kW
Emergency Generator	: Two main generators are outfitted as emergency generator

THRUSTER

Thruster	: 6 x 4,500 kW fully azimuth thruster (86mT thrust each)
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STATION KEEPING

Dynamically Positioned	: DP3 (IMO)
8 Point Mooring system	: 750m, 96mm wire, 385mT Stall pull on 5 th layer

MAIN CRANE

Main Deck Crane	: 2x80mT offshore crane (Whip 17mT)
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