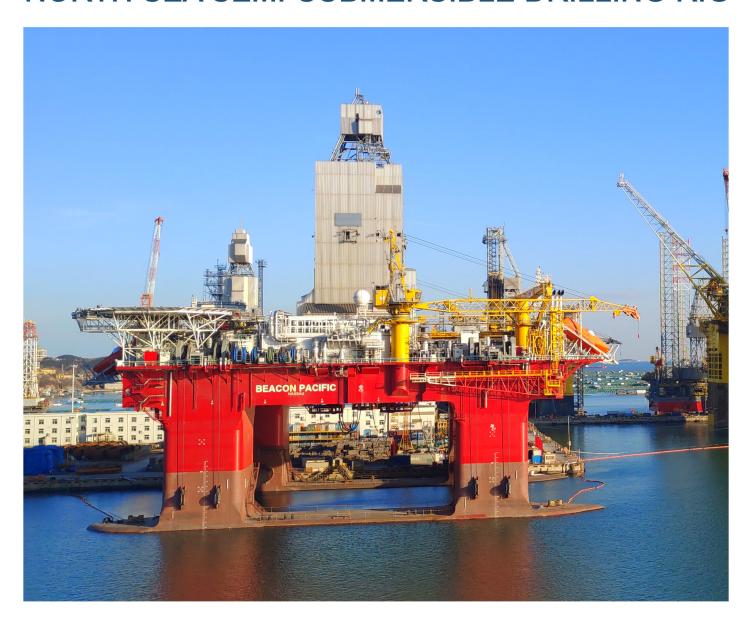
BEACON PACIFIC NORTH SEA SEMI-SUBMERSIBLE DRILLING RIG



'Beacon Pacific' is able to operate at water depth up to 500m and drill wells down to 8,000m at a temperature of minus 20 degree Celsius and meet the ICE-T class notation. It is equipped with DP3 and 8 point mooring system . The rig is designed to operate in North Sea environment and Barents Sea. It fullfils the requirements of NMD, NORSOK and PSA regulations and is classed by DNV. Compared with other drilling rigs operating in North Sea, the hull of 'Beacon Pacific' is smaller and lighter. The rig adopts high power thrusters which enables higher transit speed and stronger DP capability. The rig is equipped with NOV driling package. The drilling process has a high level of automation and can carry out offline stand building operation which will improve the drilling effeciency by 15%. 'Beacon Pacific' adopts GM4-D design by Global Maritime AS. The basic design is undertaken by CIMC Raffles and Global Maritime. The design is impoved based on the collaborative experience of the three previous North Sea semi-submersible drilling rigs with GM4000D design. Both the work performance and comfort level have been improved significantly.



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BEACON PACIFIC NORTH SEA SEMI-SUBMERSIBLE DRILLING RIG

GENERAL

Name Beacon Pacific Flag Bahamas

Yantai CIMC Raffles Offshore Limited Builder Designer Global Maritime & CIMC Raffles

Class DNV

Notation +1A1 Column Stabilized Drilling Unit (N),

DRILL (N), HELDK -SH(N), CRANE(N), DYNPOS -AUTRO, POSMOOR - ATA, E0, CLEAN, ICE-T, WINTERIZED BASIC

PRINCIPAL DIMENSIONS

Overall

LOA 106.75m Beam 73 70m Height to main deck 42.0m

Deck Box

88.15 m Lenath Width 73.10m

Draft

Operation Draft 21.0m Survival Draft 19.0 m Transit Draft : 10.1m

Displacement

Displacement : 32.600 - 46.600 T

DESIGN ENVIRONMENT

Survival condition Hs=17.3m Hs=8.0m Operation condition Transit condition Hs=5m 0°C to 32° C Sea water temperature -20°C to 35° C Outside air temperature Structure design temperature -25°C (Above water line) Fatigue life 20 years

OPERATION AREA

Norwegian North Sea World Wide

OPERATING PARAMETERS

60-500m (Current Water depth Water Depth Capacity)

Drilling depth 8.000m VDL 4,000T

STATION KEEPING (Kongsberg)

Dynamically Positioned : DP 3 (IMO)

8 Point Mooring system

STRUCTURE CAPACITY

Bulk Barite/ Bentonite 326m³ **Bulk Cement** 326m³ 600m³ Mud Pits (Upper hull) Liquid Mud (Columns) 600m³ 1,100m³ Drilling water

Fuel Oil Approx. 4,000m3 Fresh Water 600m³

550m³ Base Oil

Brine/Completion Two tanks in Pontoon, Approx. 600m³

Slop Tank 300m³

MAIN CRANE (NOV)

Main Deck Crane : 2x80T offshore crane

HELIDECK

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

MUD CIRCULATION & SOLID CONTROL SYSTEM

HP Mud Pump NOV Triplex 14-P-220, MWP 7500 psi Shale Shaker : NOV Quintuple VSM300 Shale Shaker

DRILLING SYSTERM PARAMETERS (NOV)

Total derrick capacity 680mT (1,500,000 lbs / 750 short ton)

Rotary Table 60-1/2"

Top Drive: 1X 680mT-120RPM @124kNm Drawworks 750 short ton, 4600HP (4*1150HP) 1 x main catwalk for riser / drill pipe Catwalk Machine 1 x aux. catwalk for drill pipes

Standbuilding Fingerboards 3 x range 2 or 2 x range 3 and range from 2 x 45 ft casings stands

: Max. 273 stands of 5 7/8" drill pipe. 12 stands of Racking Capacity 9 1/2" drill collar, 56 stands of 12 3/8" or 9 5/8"

or 7" casing

Crown Block & Compensator: Lock static capacity: 1500 kips;

Compensating capacity: 1000 kips;

Compensating stroke: 25 ft

: Handling of drill pipe and collars ranging Main Roughneck

from 3 1/2" to 9 3/4" in diameter and casing up to 26" in diameter if equipped with NOV Casing Tools Frames and

pickup tools,

Max break out torques is 200,000Nm; make up to torque is 140,000 Nm.

Offline Standbuilding Roughneck

: Handling of drill pipe and collars ranging from 3 1/2" to 9 3/4" in diameter and casing up to 13 3/8" in diameter if equipped with NOV Casing Tools Frames and pickup tools, Max break out torques

is 200.000Nm:

make up torque is 140,000 Nm.

Riser/DP handling Knuckleboom Crane

Rigging: 35mT @6.5-30m

8x54.5mT Riser tensioner

BOP & WELL CONTROL SYSTEM (NOV)

BOP Stack 18 3/4 " 15000psi 5 rams, 2 annular.

21" x 5/8" W.T. Main Tube. Riser Joint 50' long x 33pcs in total;

Riser with 48" OD buoyancy -28 pcs,

slick riser -5 pcs

: 50' stroke, Remote Operated Gooseneck x 2 pcs Slip Joint

HANDLING EQUIPMENTS FOR SUBSEA INSTALLATION (NOV)

LMRP Skid 300mT, Push-Pull **BOP Skid** 300mT, Push-Pull

Cantilever Skid 100mT, 5300mm Extension LMRP Overhead Crane : Main 2x 60mT+Aux. 1x 12mT X'Mas Tree Skid 1x 100mT with turntable + 1x space reservation for 100mT Skid

BOP Handing : 420mT SWL BOP Moon Pool Trolley

ACCOMMODATION

130 single cabins (According to NORSOK requirements)

(Rolls Royce) MAIN POWER SYSTEM

Main Generator Set 6 x 5,535kWe

Two main generators are outfitted **Emergency Generator** as emergency generators.

THRUSTER (Rolls Royce)

Thruster : 6 x 4,500kW fully azimuth thruster

