

Belford Dolphin

GENERAL

Name: Belford Dolphin

Flag: Singapore

Owner: Fred. Olsen Energy ASA

Manager: Dolphin Drilling Ltd.

Year Built: 2000

Builder: Samsung Heavy Industries,
Kyungnam, South-Korea

Design: Hitec ASA/LMG Marin Sea Prince,
Self-Propelled, DP Class 3

Classification: DNV + 1A1, Drilling Vessel, HELDK-SH, EO, DYN-
POS AUTRO, ICS, LCS, (DIS), F-M, Oil Storage Vessel (N), Drill (N),
CRANE

MAIN DIMENSIONS

Length: 672 ft (205 m)

Breadth: 131 ft (40 m) moulded

Depth: 64 ft (19,5 m) moulded

OPERATING PARAMETERS

Water Depth: 10,000 ft (3048 m)

Maximum Drilling Depth: 39,370 ft (12,000 m)

Transit Speed: 10 knots approx.

Survival Conditions: 100 year sea state North Atlantic

Drilling Conditions: Maximum heave 3-5 m (amplitude) depend-
ant on heave period

CAPACITIES

Variable Deck Load: 12,500 tons

Liquid Mud: 15,050 bbls

Bulk Mud/Cement: 780 m3 barite/bentonite, 520 m3 cement

DRILLING EQUIPMENT

Derrick: 193 x 50 x 43 ft, dual activity (off-line vertical make-up/
break-out of tubulars) drilling Derrick, 1000 st main Hook load; 120
st secondary Hook load; 2 x Crown blocks [DP racked in quadru-
ples & Casing in doubles

Drawworks: Main Drawworks: 6900 ho active heave compen-
sated. Auxiliary Drawworks: 375 hp

Rotary: Wirth RTSS 60 ½"

Topdrive: DDM; 750-AC 2M, 750 st (upgraded to 1000 st)

Riser Tensioners: Total 3.200.000 lb, 50 ft stroke

Motion Compensators: Active heave compensated Drawworks

Mud Pumps: 4 x NOV 14-P-220; 2200 hp, 7500 psi

MACHINERY

Main Power: 6 x B&W 16V32/40, 7330 kW each; 6 x generator sets,
6700 KW each at 720 rpm

Emergency Power: 1 x main generator in each engine room
above is defined as emergency generator

Propulsion/Station Keeping: 2 x Azimuth thrusters aft, 4000 KW
each, 3 azimuth thrusters forward, 4000 kW each. Fixed pitch pro-
pellers with variable speed motors



SUBSEA SYSTEMS

BOP: 18 ¾" inch, 15k, QLS Subsea Ram BOP (Stewart & Stevenson)

Control System: ABB Offshore Systems

Diverter: Hydril FS 21 / 500 psi

Choke and Kill: 15k

MOORING

Winches: Inshore mooring only

Wire/Chain: N/A

Anchors: N/A

CRANAGE

2 x 80 mt Deck cranes; 2 x Knuckle boom cranes; 1 x 2 mt helicop-
ter service deck crane.

ACCOMMODATION

130 berths in 65 double man cabins