

BIDEFORD DOLPHIN TECHNICAL SPECIFICATION



GENERAL DESCRIPTION		STORAGE CAPACITIES	
Design	2nd / 5th gen. Enhanced Aker H-3	Fuel Oil	1,6039 bbls (2,550 m3)
Constructing Shipyard	Aker Verdal / BMV A/S, Norway / H&W, N. Ireland	Liquid Mud	7,704 bbls (430 m3) Active / 4,906 bbls (780 m3) Reserve
Year Entered Service / Significant Upgrade	1975 / 1999	Brine	2,409 bbls (383 m3)
Classification	DNV GL 1A1, DRILL (N), CRANE, HELDK	Base Oil	2,069 bbls (329 m3)
Flag	Singapore	Drill Water	16,863 bbls (2,681 m3)
Dimensions	355 ft (108 m) long x 221 ft (67.36 m) wide x 120 ft (36.58 m) deep	Potable Water	3,554 bbls (565 m3)
Drafts	68.9 ft (21.00 m) operating / 60 ft (18.29 m) survival / 30.84 ft (9.4 m) transit	Bulk Material	19,070 cu.ft (540 m3)
Accommodation	99 persons (+1 hospital)	Sack Storage	72 m2
Displacement	27,438 mt operating / 19,241 mt transit		
Variable Deck	2,738 mt operating / 1,952 mt transit @ 13m		
Transit Speed	5 knots (historical avg.)		
Maximum Water Depth	1,476 ft (450 m) designed / 1,476 ft (450 m) outfitted		
Maximum Drilling Depth	21,325 ft (6,500 m)		

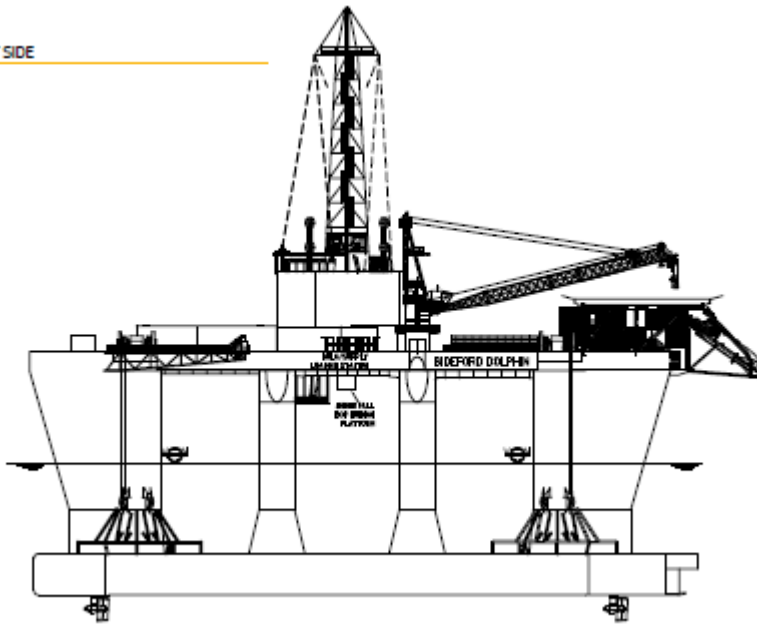
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DRILLING EQUIPMENT		BOP & SUBSEA EQUIPMENT	
Derrick	Maritime Hydraulics (MH), 141.1 ft (43 m) high with 105 ft (32 m) lifting height	BOP	Cameron 18 3/4" 10,000 psi, 4 ram, Vetco H4 wellhead connector
Hookload Capacity	881,849 lbs / 440 st	BOP Control	Hydril hydraulic control system
Drawworks	Maritime Hydraulics RamRig cylinders, 440 st	BOP Handling	MH BOP transporter 185 mt
Compensator	Maritime Hydraulics RamRig cylinders, 440 st active and passive compensation	Marine Riser	Vetco MR6D 21" OD riser (75 ft long joints) with 3" ID choke and kill lines, working pressure 10,000 psi.
Rotary Table	Varco BJ 49 1/2" H, 1,000 st	Tensioners	8 x Maritime Hydraulics rated at 100,000 lbs / 45 mt each and a stroke length of 12.5 ft (3.81 m) and a total line travel of 50 ft (15.24 m).
Top Drive	Maritime Hydraulics MH DDM 650L-HY, 2 x Rexroth hydraulic motors; rated to 43,000 ft.-lbs continuous drilling torque	Diverter	Hydril FS 21-500 Model K rated at 500 psi
Tubular Handling	MH RamRig and Monkey arm pipe racking system with setback capacity for up to 21,325 ft (6,500 m) of 5 1/2" or 5" drill pipe	Tree Handling	2 x 105 mt moonpool skids, one with turn table 1 x 60 mt hydraulic skids Dedicated area for Xmas tree stacking with NDM stabbing dolly
Iron Roughneck	Maritime Hydraulics 1899, 3 1/2" – 9 5/8" OD	Moonpool	26.24 x 19.68 ft (8 m x 6 m)
Mud Pumps	3 x Continental Emsco FB 1600, each driven by 2 x GE 752 motors.		
HP Mud System	Rated for 5,000 psi		
Solids Control	5 x Swaco BEM 650 shale shakers		
STATION KEEPING / PROPULSION SYSTEM		CRANES	
Thrusters	2 x Rolls Royce, Compass thrusters TCNP120/85/330, 2,200 kW each	Crane #1	1 x Molde Kran (NOV), 50 mt
Mooring System	4 x double Ulstein Norwinch windlasses, 8 x Stevpris MK6 14 mt rated anchors, 8 x R4 76 mm Stud link, NVR 4	Crane #2	1 x Molde Kran (NOV) KHO 5021/2041, 46 mt
		Crane #3	1 x Maritime Hydraulics Pipe deck crane, 6 mt
POWER & MACHINERY		OTHER INFORMATION	
Main Power	4 X Rolls Royce Ulstein Bergen KVGB-16, 3,360 kW	Helideck	Rated for Sikorsky S-61 N or S-92.
Emergency Power	1 x Detroit DCC 12V 149 (EM), Mitsubishi S12R-MPTK (MS), 1,153 kW + 1,210 kW	Burner Booms	2 x 75.5 ft (23 m)
Power Distribution	4 x ABB, AMG 710 MP 8S (4,200 kVA) and 6+2 x ABB DCS 800 SCR's	Loading stations	Reel type loading stations (port and stbd) with hoses for potable water, drilling water, fuel, OBM, WBM, cement, base oil, brine and Barite/Bentonite
		Lifeboats	4 x Norsafe GES 40, free fall type

This short form specification is intended for general reference purposes only. The specification of the drilling unit concerned is subject to contract and Dolphin Drilling does not warrant the accuracy or completeness of this short form specification

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ELEVATION PORT SIDE



PLAN OF MAIN DECK

