



## ENSCO DS-5

### GENERAL INFORMATION

<b>Flag:</b>	Republic of Marshall Islands
<b>Previous Name(s):</b>	Pride Deep Ocean Mendocino
<b>Year Built:</b>	2011
<b>Builder:</b>	Samsung Heavy Industries, Geoje, S. Korea.
<b>Upgrade:</b>	N/A
<b>Design:</b>	Samsung
<b>Classification:</b>	SAMSUNG ABS A1 E, Drilling Unit, AMS, ACCU, DPS-3, NBLES, SH-DLA.

### MAIN DIMENSIONS

<b>Length:</b>	751.3ft	229m
<b>Breadth:</b>	137.8ft	42.0m
<b>Depth:</b>	62.3ft	19.0m
<b>Moon Pool:</b>	41ft x 84ft	12.4m x 25.6m

### DRAFT AND DISPLACEMENT

<b>Operating Draft:</b>	39.3ft	12.0m
<b>Displacement:</b>	211,643Klb	96,000Mt

### MACHINERY

<b>Main Power:</b>	6 x MAN-STX 16V 32/40 8000KW diesel main engines coupled with ABB 8,750KVA AC generators arranged with 2 sets each in port, center, and starboard engine rooms.
<b>Power Distribution:</b>	6 x ABB x 7,000KW 720rpm.
<b>Emergency Power:</b>	STX CUMMINS QSK60-DM 1,700KW 1,800 rpm automatic, AC generator ABB 2125KVA IP23 1,700KW 1,800rpm.

### OPERATING PARAMETERS

<b>Water Depth:</b>	10,000ft	3.048m
<b>Drilling Depth:</b>	40,000ft	12.192m
<b>Transit Speed:</b>	10 to 12Kt	
<b>Survival Conditions:</b>	100Kt, 14.4m wave,	20,000Mt

### DRILLING EQUIPMENT

<b>Derrick:</b>	Dynamic Derrick NOV x 80ft x 60ft x 200ft clear height x 2,000,000lb static hook load.
<b>Drawworks:</b>	NOV Dresco Drawworks SSGD-5750-55-82-10.5, with regenerative braking x 5 General Electric GEB22A3 AC motors.
<b>Top Drive:</b>	NOV top drive, HPS-03 1000 2AC KT RD x 907mT capacity, driven by 2 General Electric GEB20B AC motors, incl. 115,000ft.lb pipe handler.
<b>Mud Pumps:</b>	4 x NOV triplex mud pumps N14-P-220 x 2,200Hp belt driven x 2 General Electric GEB22D AC motors.
<b>Handling:</b>	2 x NOV Vertical Columns Rackers Hydralift Hydraracker IV 2xNOV MPT 200 Hydratong IR
<b>Cementing:</b>	15,000 psi Haliburton (3 <sup>rd</sup> party)
<b>Drill Pipe:</b>	6-5/8" x 15,000ft S135 R3, 6-5/8"FH; 5 1/2" x 20,000ft S135 R3, 5 1/2"FH.
<b>HWDP:</b>	6-5/8" x 24 standard R2, 6-5/8"FH; 5 1/2" x 24 standard R2, 5 1/2"FH.
<b>Drill Collar:</b>	9 1/2" x 31ft x 12 spiral, 7-5/8"Reg.; 8 1/4" x 31ft x 24 spiral, 6-5/8"Reg.; 6 1/2" x 31ft x 24 spiral, NC46.

### HOISTING EQUIPMENT

<b>Craneage:</b>	4 x NOV Hydralift 90ft main Boom, Knuckle Boom 66ft, 85mT @ 59ft & 17mT 138ft.
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### CAPACITIES

<b>Tubulars in Pipe Rack:</b>	1 x NOV Hydralift, Tubular Catwalk machine for tubular up to 30", 50ft and 10Mt.
<b>Variable Deck Load:</b>	44,100Klb 20.000Mt
<b>Liquid Mud:</b>	13,807bbl 2.195m <sup>3</sup>
<b>Barite/Bentonite:</b>	16,000ft <sup>3</sup> 453m <sup>3</sup>
<b>Bulk Cement:</b>	18,800ft <sup>3</sup> 532m <sup>3</sup>
<b>Drill water:</b>	16,300bbl 2.591m <sup>3</sup>
<b>Potable Water:</b>	8,100bbl 1.288m <sup>3</sup>
<b>Brine Storage:</b>	7,400bbl 1.177m <sup>3</sup>
<b>Base Oil Capacity:</b>	2,800bbl 445m <sup>3</sup>
<b>Fuel Oil:</b>	34,500bbl 5.485m <sup>3</sup>
<b>Sacks:</b>	8,000 sacks 350Mt

### WELL CONTROL SYSTEMS

<b>BOP:</b>	NOV Shaffer BOP stack x 18 3/4" x 15,000Psi WP Guide-lineless, 6 x rams cavities; 2 x annular, with GE Vetco DWHD-H4 wellhead connector, Super HD wellhead connector and ExF HAR H-4 LMRP connector.
<b>BOP Handling:</b>	1 x NOV BOP Gantry Crane x 2 x 220MT, 1x NOV BOP Trolley x 460MT.
<b>Control System:</b>	NOV Shaffer Multiplex BOP Control System, complete with BOP control unit satisfying API 16D Specification and with BOP fluid recovery system.
<b>Choke and Kill:</b>	3-1/16" x 15,000Psi; 10,000Psi downstream WP, with 2 x manual chokes, 2 x remote operated chokes & hydraulic valves, with glycol injection system, complete with full instrumentation.
<b>Diverter:</b>	NOV Shaffer 60 1/2" Nominal Opening CSO 59 1/4" housing, 500psi.

### HELIDECK

<b>Size:</b>	89.2ft x 89.2ft. 27.2mx27.2m Octagonal
<b>Load Capacity:</b>	21.3Mt
<b>Design:</b>	Boeing BV234LR Chinook Helicopters.

### ACCOMMODATION

200 persons in single, two, three or four beds cabins

### ADDITIONAL DATA

<b>Thrusters:</b>	6 x Rolls-Royce Azimuthing, underwater demountable, vertical drive motor, 1 x ABB AC electric IP44, variable speed, non-reversible 5.5MW.
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