



ENSCO DS-4

GENERAL INFORMATION

Flag:	Republic of Marshall Islands
Previous Name(s):	Pride Deep Ocean Clarion
Year Built:	2010
Builder:	Samsung Heavy Industries, Co. Ltd., S. Korea
Upgrade:	N/A
Design:	Samsung
Classification:	ABS +A1(E), Drilling Unit, +AMS, +ACCU, +DPS-3, NBLES, SH-DLA

MAIN DIMENSIONS

Length:	747.4 ft	227.8 m
Breadth:	137.8 ft	42.0 m
Depth:	62.3 ft	19.0 m
Moon Pool:	41 ft x 84 ft	12.5 m x 25.6 m

DRAFT AND DISPLACEMENT

Operating Draft:	39.3 ft	12.0 m
Displacement:	212,762 kips	96,507 mT

MACHINERY

Main Power:	6 x STX-MAN, 16V32/40 10,728 hp(8,000 kW), diesel engines coupled with ABB 8,750 kVA AC generators
Power Distribution:	6 x ABB 7,000 kW 720 rpm
Emergency Power:	STX Cummins 1,900 kW 1,800 rpm automatic, AC generator 1,700 kW

OPERATING PARAMETERS

Water Depth:	10,000 ft	300 m-3,048 m
Drilling Depth:	40,000 ft (max.)	12,192 m
Transit speed:	10 to 12 kn	
Survival Conditions:	44,092 kips	20,000 mT

DRILLING EQUIPMENT

Derrick:	1 x Dynamic Derrick NOV, 80 ft x 60 ft x 200 ft clear height, 2 x 2,000,000 lb static hook load
Drawworks:	2 x NOV Dresco drawworks, SSGD-1000-5750-55-82-10.5 with regenerative braking, 5 x GE GEB22A3 AC motors
Rotary:	1 x NOV rotary table RST, 75½" 1,000 sT capacity, 1 x NOV false RST 60 ½" 1000 sT capacity, only 1 hydraulic driven (auxiliary well center is outfitted with a mouse hole barrier)
Top Drive:	2 x NOV top drives, HPS-03 1000 2AC KT RD 1,000 sT capacity, 2 x GE 5GEB22D AC motors, incl. 115,000 ft.lb pipe handler
Mud Pumps:	4 x NOV triplex mud pumps, N14-P-220 2,200 hp belt driven, 2 x GE 5GEB22D AC motors
Handling:	2 x NOV vertical column rackers Hydraracker IV 3 ½" – 13 5/8" 12.5 mT @ 2.7 m radius, 2 x NOV MPT 200 Hydratong (main well includes mud bucket)
Cementing:	15,000 psi Baker Hughes services (third party free placement)
Drill Pipe:	6-5/8" x 25,000ft V150 R3, NOV-GPXT65, 5-7/8" x 10,000ft V150 R3, NOV-GP XT57, 5" x 5,000ft S135 R3, NOV-GP XT50
Landing String	6-5/8" x 10,000ft V150 R3, GP 6-5/8" FH

HWDP:	6-5/8" x 30 standard R2, NOV-GP XT65, 5-7/8" x 30 standard R2, NOV-GP XT57
Drill Collar:	9 ½" x 12 spiral R2, API 7-5/8" Reg., 8 ¼" x 24 spiral R2, API 6-5/8" Reg., 6 ¾" x 24 spiral R2, API NC50

HOISTING EQUIPMENT

Crane:	3 x NOV knuckle boom cranes rated capacity 85 mT @ 59 ft & 17 mT @ 138 ft, 1 x NOV AHC knuckle boom crane rated capacity 165 mT @ 55 ft, 30 mT @ 164 ft, & 86 mT @ 9,840 ft water depth, 1 x NOV OC1891PS pipehandling crane rated capacity 3.5 mT, 1 x Hochang helideck service crane rated capacity 10 mT
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CAPACITIES

Tubular in	1 x NOV tubular catwalk machine for tubular up to 30" diameter and 50 ft long and 10 mT
Pipe Rack:	
Variable Deck Load:	44,092 kips 20,000 mT (operational)
Liquid Mud:	12,270 bbl 1,951 m ³
Bulk Cement:	18,800 ft ³ 532 m ³
Barite/Bentonite:	16,000 ft ³ 453 m ³
Drill water:	16,300 bbl 2,591 m ³
Potable Water:	8,100 bbl 1,288 m ³
Brine Storage:	7,000 bbl 1,113 m ³
Base Oil Capacity:	2,800 bbl 445 m ³
Fuel Oil:	34,500 bbl 5,485 m ³
Sacks:	8,000 sacks 350 mT

WELL CONTROL SYSTEMS

BOP:	1 x NOV Shaffer BOP Stack 18 ¾", 15,000 psi wp, guide lineless, 6 x ram cavities, 2 x annulars, GE Vetco SHD-H4 wellhead connector, ExF HAR H-4 LMRP connector
BOP Handling:	1 x NOV overhead crane rated capacity 2 x 220 mT, 1 x NOV moon pool cart rated capacity 463 mT
Control System:	1 x NOV Shaffer Multiplex BOP Control System, complete with BOP control unit satisfying API 16D 2nd Edition (Jan 2005) NMD and ABS MODU Specification and with BOP fluid recovery system
Choke and Kill:	3-1/16", 15,000 psi /10,000 psi wp, 2 manual chokes, 2 remote operated chokes & hydraulic valves, with glycol injection system, complete with full instrumentation
Diverter:	NOV Shaffer 21-1/4" CSO, 500 psi wp

HELIDECK

Size:	89.2 ft x 89.2 ft	27.2 m x 27.2 m
Load Capacity:	46,958 lb	21.3 mT
Design:	Boeing Vertol Chinook Helicopters	

ACCOMMODATION

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

ADDITIONAL DATA

Thrusters:	6 x Rolls-Royce UUC455 azimuthing, underwater demountable, vertical drive motor, 1 x ABB AC electric IP44, variable speed, non-reversible 5.5 MW
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