



ENSCO DS-7

GENERAL INFORMATION

Flag:	Republic of Marshall Islands	
Previous Name(s):	Pride Deep Ocean Marquesas	
Year Built:	2013	
Builder:	Samsung Heavy Industries, Geoje, S. Korea.	
Upgrade:	2018 – MPD Readiness & 2nd BOP	
Design:	Samsung 96K Drillship (7 th Generation)	
Classification:	ABS A1 (E) Drillship, ✕AMS WT-Ready UWILD ✕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:	84 ft x 41 ft	25.6 m x 12.5 m

DRAFT AND DISPLACEMENT

Operating Draft:	39.3 ft	12 m
Displacement:	211,643 Klb	96,000 mt

MACHINERY

Main Power: 6 x STX-MAN 16V32/40 x 8,000 kW diesel main engines coupled with ABB x 7,000 kW AC generators arranged with 2 sets each in Port, Center, and Starboard engine rooms.

Power Distribution: ABB model AMG 0900 XU 10 LSE 7000 kW
Emergency Power: CUMMINS 1700 kW 1800 rpm

OPERATING PARAMETERS

Water Depth:	10,000 ft / 3048 m (Upgradable to 12,000ft)	
Drilling Depth:	40,000 ft (Max.)	12,191 m
Transit Speed:	10 to 12 knots	
Survival Conditions:	11.0m/36.1 ft	88065 mt / 194,150Klb

DRILLING EQUIPMENT

Derrick:	NOV Dual Dynamic Derrick, 80 ft x 60 ft, 210 ft clear height x 2,500,000 lbs static hook load Main well. single hook, 3,500,000 lbs simultaneously
Drawworks:	2 x NOV Dresco Drawworks. Main Well SSGD-1250 with regenerative braking x 6 General Electric GEB22A AC Motors Aux Well: SSGD-1000 with 5 General Electric GEB22A AC Motors.
Compensator:	Main: CMC-E. 25ft, 680mT Comp / 1,134mT Locked Aux: CMC. 25ft, 454mT Comp / 907mT Locked
Rotary:	2 x NOV RST's, Main RST-75½" x 1,133 mt, Aux RST-60 ½" x 907 mt
Top Drive:	2 x NOV Twin Motor TDS's Main: TDX-1250. 1,133 mT. 2,680 HP. 105 kft-lbs Aux: HPS-1000. 907 mT. 2,300 HP. 78 kft-lbs
Mud Pumps:	4 x NOV National 14-P-220 Triplex mud pumps, 2,200 HP ea.
Handling:	2 x NOV "Hydraracker IV" Column Rackers; 2 x NOV ARN 200 Hydratong "Iron Roughnecks"; 200kft-lbs max torque. 1 x NOV Torque-Pro 8045 Bucking Machine 1 x CWS P10-45HS Catwalk Shuttle. Max OD: 30", Max length: 50ft. Max Weight: 10mT
Cementing:	Baker Hughes BJ services, 2300hp Seahawk twin pump skid AC-VFD electric unit.
Drill Pipe:	6-5/8" x 10,000 ft V150 0.813 wt R3, API 6-5/8" FH; 6-5/8" x 10,000 ft V150 0.522 wt R3 API 6-5/8" FH; 5 ½" x 20,000 ft S135 0.415 wt R3, API 5 ½" FH 6-5/8" x 30 ft x 30 standard R2, API 6-5/8" FH; 5 ½" x 30 ft x 30 standard R2, API 5 ½" FH
HWDP:	9 ½" x 30 ft x 9 spiral R2, 7-5/8" Reg; 8 ¼" x 30 ft x 24 spiral R2, 6-5/8" Reg; 6 ½" x 30 ft x 30 spiral R2, NC46

HOISTING EQUIPMENT

Crane: 3 x NOV Hydralift Knuckle Boom Cranes, rated capacity 85mt @ 59 ft & 17mt @ 137 ft,
 1x NOV Hydralift Active Heave Compensated Knuckle Boom Crane, rated capacity 165 mt @ 17m, capable of running 100mt @ 9,840 ft water depth (wet weight 86.3 mt on hook).
 1 x Pipe Handling Knuckle Boom Crane, rated capacity 9mt @ 73ft c/w Gripper Yoke
 1 x Riser Gantry Crane
 1 x Pedestal Jib Crane (for Helideck) rated capacity 10mt @ 65ft.

CAPACITIES

Variable Deck Load:	41,888 klb	19,000 mt @ 12m
Liquid Mud Active:	6,000 bbl	954 m ³
Liquid Mud Reserve:	7,400bbl	1,190 m ³
Barite/Bentonite:	16,000 ft ³	453 m ³
Bulk Cement:	18,800 ft ³	532 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:	2 x NOV Shaffer BOP Stack 18 ¾" x 15,000 psi working pressure x 6 ram cavities, 2 x annular, rated for 12,000 ft water depth.
BOP Handling:	1 x NOV BOP Gantry Crane, rated 2 x 240 mt 1 x 540 mt
Control System:	1 x Shaffer 5th generation Multiplex BOP Control system, rated for 12,000 ft water depth, complete with BOP control unit satisfying API 16D specification
Choke and Kill:	1 x Anson 3-1/16" x 15,000 psi upstream, 10,000 psi downstream WP Manifold, 2 manual chokes, 2 remote operated chokes, and glycol injection system, rated for H ₂ S sour service.
Riser Diverter:	GE-Vetco MR-6H SE, 3,500 klbs 75ft jts x 10,000ft 1 x NOV 75 ½" Nominal Rotary Table Opening CSO, 500 psi. MPD & RGH Ready Weatherford & Safekick. 2000gpm, 8.3 – 20 ppg, 2,000 psi. C/w RCD, DSIT, Flow Spool, MPD Control System, MPD Choke & Buffer Manifold

HELIDECK

Size:	89.2 ft x 89.2 ft (27.2 m x 27.2 m Octagonal)
Capacity:	46,958 lbs 21.3 mt
Design:	Boeing BV234LR Chinook tandem rotor helicopters.

ACCOMMODATION

200 persons in single, two, three, or four bunk cabins.

ADDITIONAL DATA

Thrusters:	6 x Rolls-Royce Azimuthing, underwater demountable, vertical drive motor, ABB, AC electric, IP44, variable speed, non-reversible, 5.5 MW.
Well Test:	Extended Well Test Area Swan neck flare boom c/w Gas, Oil, Water and Air piping. Hydraulic-slewing 180° rotation. Rig dedicated deluge piping and pump
X-Tree Handling:	X-tree Carrier (1) and Skids (2) capable of 120mT