



ENSCO DS-11 (formerly Atwood Advantage)

GENERAL INFORMATION

Flag:	Marshall Islands
Previous Name(s):	Atwood Advantage
Year Built:	2013
Builder:	DSME Okpo Shipyard - Geoje, South Korea
Design:	DSME 12000 Double-Hull DP Drillship
Classification:	@ 1A1 Ship Shaped Drilling Unit, DYNPOSAUTRO, CRANE, E0, HELDK-SH, DRILL, BIS, BWMT, DPS-3

MAIN DIMENSIONS

Length:	780 ft (238 m)
Breadth:	137 ft (42 m)
Depth:	62 ft (19 m)
Moon Pool:	22.15 m x 9.75 m

DRAFT AND DISPLACEMENT

Operating Draft:	39 ft (12m)
Displacement:	104,000 mT @ 12 m draft

MACHINERY

Main Power:	Six (6) HHI 14H32/40V 14 cylinder engines rated 7,000 kW each, driving six (6) Siemens HSJ71209-10P generators rated at 6,750 kW ea.
Power Distribution:	Three (3) Siemens Switchboard 11 kV for generator control and distribution
Emergency Power:	One (1) Caterpillar, 3516B 16 cylinder emergency diesel engine rated 1,889.2 kW driving One (1) Leroy Somer, Brushless/Revolving Field generator rated at 1,765 kW

OPERATING PARAMETERS

Water Depth:	maximum 12,000 ft (3,657 m); oufitted for 10,000 ft (3,048 m)
Drilling Depth:	40,000 ft (12,192 m)
Transit Speed:	12.5 knots at transit draft
Survival Conditions:	48,201 kips (21,863 mT)

DRILLING EQUIPMENT

Derrick:	One (1) NOV Galvanized Derrick, 18m x 24m x 64m (approx. 59ft x 80ft x 210ft) working height static hook load 2,500 kips
Drawworks:	One (1) Main Well, NOV 1,250 sTon, 6 motor, AHD-1250 Active Heave Drawworks System Continuous rating is 1,120 kW (1,500 HP), 690 VAC
Rotary:	One (1) Main, NOV Rotary table 75.5", hydraulic drive, 5 rpm continuous/15 rpm intermittent, 1,375 sTon load capacity One (1) Aux, NOV Rotary table 60.5", hydraulic drive, 5 rpm continuous/15 rpm intermittent, 1,000 sT on load capacity
Top Drive:	One (1) Main, NOV TDX – 1250 top drive (1,250 sTon Capacity) One (1) Aux, NOV TDS – 1000 top drive (1,000 sTon Capacity)
Mud Pumps:	Four (4) NOV 14P-220 HP mud pumps, 2,200 HP, 7,500 psi
Handling:	Two (2) NOV Hydra-Racker IV-ER Automated pipe handling/racking system Two (2) NOV ST-160 Iron Roughnecks (one Main and one Aux well)
Cementing:	Haliburton HT 400 – 15,000 psi (3rd party)
Drill Pipe:	5 7/8" x 4,572 m (15,000 ft) V-150 R3 uGPDS55 6 5/8" x 3,048 m (10,000 ft) V-150 R3 uGPDS65 6 5/8" x 2,438 m (8,000 ft) V-150 R3 uGPDS65

Landing String:	6 5/8" x 3,048 m (10,000 ft) V-150 R3 6-5/8 FH
HWDP:	5 7/8" x 32 standard R2 uGPDS55 6 5/8" x 32 standard R2 uGPDS65
Drill Collars:	7" x 32 spiral, NC50 8 1/4" x 24 spiral, 6 5/8 Reg 9 1/2" x 8 spiral, 7 5/8 Reg

HOISTING EQUIPMENT

Craneage:	Three (3) NOV Knuckle boom crane 100 mT lifting capacity at 20 m; One (1) NOV Active Heave Crane for subsea lifts, 165 mT deck load at 18.2 m radius to 600 m water depth, 103 mT deck load at 3,000 m water depth
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CAPACITIES

Variable Deck Load:	Operational 23,000 mT Transit: 19,844 mT
Tubulars in Pipe Rack:	One (1) NOV Pipe Catwalk Machine 15 mT x 50' length c/w tail-in arm One (1) NOV Riser Catwalk Machine with tail in arm and flat bed service cart
Liquid Mud:	2,997m ³ (includes slug tanks but not processing tanks)
Barite/Bentonite:	480 m ³
Bulk Cement:	320 m ³
Drill water:	3,190 m ³
Potable Water:	1,634.3 m ³
Brine Storage:	1,033.4 m ³
Base Oil Capacity:	815 m ³
Fuel:	8,415.6 m ³
Sacks:	14,500 sacks (Double Stacked pallets in covered Sack Room)

WELL CONTROL SYSTEMS

BOP:	Two (2) GE/Hydril 18-3/4" 15 ksi 7 ram BOP stack c/w two (2) 10 Ksi annulars and an 18-3/4" Super HD-H4 wellhead connector
BOP Handling:	One (1) NOV BOP bridge crane 2 x 250 mT c/w 2 ea. 30 mT auxiliary winches One (1) NOV bulkhead guidance system for capturing BOP movement
Control System:	Hydril Control System 3,000/5,000 psi One (1) Hydril BOP Test Pump One (1) Hydril Diverter closing unit c/w pumps, accumulator, and operator/test panel
Choke and Kill:	One (1) Techdrill 15k x 10k choke and kill manifold with glycol injection
Diverter:	One (1) GE/Hydril CSO type 75.5" diverter housing with 18" flowline, 16" divert line One (1) GE/Hydril full closure diverter assy c/w 20" thru bore and rated to 500 psi

HELIDECK

Size:	Octagonal 22.8 x 22.8; D-Value 22.8
Capacity:	14.6 mT
Design:	Designed for S-61N, S-92, EH101

ACCOMMODATION

Total Beds:	200 persons
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ADDITIONAL DATA

Thrusters:	Six (6) Rolls Royce thrusters with steering motors, control panel and Hydraulic power unit, c/w Siemens 5,500 kW drive motors @ 750 rpm
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