



ENSCO DS-12 (formerly Atwood Achiever)

GENERAL INFORMATION

Flag:	Marshall Islands
Previous Name(s):	Atwood Achiever
Year Built:	2013
Builder:	DSME Okpo Shipyard - Geoje, South Korea
Upgrade:	N/A
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) x HHI 14H32/40V 14 cylinder engines rated 7,000 kW each, driving 6 Siemens HSJ71209-10P generators rated at 6,750 kW each Three (3) x Siemens Switchboard 11 kV for generator control and distribution
Power Distribution:	generator control and distribution
Emergency Power:	One (1) x Caterpillar, 3516B 16 cylinder rated 1,889.2 kW driving; 1 x Leroy Somer, Brushless generator rated at 1,765 kW

OPERATING PARAMETERS

Water Depth:	maximum 12,000 ft (3,657 m); outfitted 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:	1 x NOV Galvanized Derrick, 18m x 24m x 64m (approx. 59ft x 80ft x 210ft) working height static hook load 2,500 kips
Drawworks:	1 x NOV 1,250 sTon, 6 motor, AHD-1250 Active Heave Drawworks System; Continuous rating is 1,120 kW (1,500 HP), 690 VAC
Rotary:	1 x NOV Rotary table 75.5", hydraulic drive, 5 rpm continuous/15 rpm intermittent, 1,375 sTon load capacity 1 x NOV Rotary table 60.5", hydraulic drive, 1,000 sT on load capacity
Top Drive:	1 x NOV TDX – 1250 top drive (1,250 sTon Capacity) 1 x NOV TDS – 1000 top drive (1,000 sTon Capacity)
Mud Pumps:	4 x NOV 14P-220 HP mud pumps, 2,200 HP, 7,500 psi 1 x NOV 10-P-130 boost pump, 1,300 HP
Handling:	2 x NOV Hydra-Racker IV-ER Automated pipe handling/racking system 2 x NOV ST-160 Iron Roughnecks (1 Main and 1 Aux well)
Cementing:	Schlumberger – 3.75"=15K / 5"-10K (3rd party)
Drill Pipe:	5 7/8" x 4,572 m (15,000 ft) V-150 R3 uGPDS55 6 5/8" x 3,884 m (12,744 ft) V-150 R3 uGPDS65 6 5/8" x 3,118 m (10,231 ft) V-150 R3 uGPDS65
Landing String:	6 5/8" x 3,830 m (12,000 ft) V-150 R3 6-5/8 FH
HWDP:	5 7/8" x 32 standard R2 uGPDS55 6 5/8" x 35 standard R2 uGPDS65
Drill Collars:	7" x 32 spiral, NC50

8 1/4" x 29 spiral, 6 5/8 Reg
 9 1/2" x 9 spiral, 7 5/8 Reg

HOISTING EQUIPMENT

Crane:	3 x NOV Knuckle boom crane 100 mT lifting capacity at 20 m 1 x 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:	23,000 mT
Tubulars in Pipe Rack:	1 x NOV Pipe Catwalk Machine 15 mT x 50' length c/w tail-in arm 1 x NOV Riser Catwalk Machine with tail in arm and flatbed service cart
Liquid Mud:	2,991.1m ³ (includes slug 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:	10,000 sacks

WELL CONTROL SYSTEMS

BOP:	2 x GE/Hydriil 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:	1 x NOV BOP bridge crane 2 x 250 mT c/w 2 ea. 30 mT auxiliary winches 1 x NOV bulkhead guidance system for capturing BOP movement
Control System:	Hydriil Control System 3,000/5,000 psi, accumulator, and operator/test panel
Choke and Kill:	1 x Techdrill 15k x 10k choke and kill manifold with glycol injection
Diverter:	1 x GE/Hydriil CSO type 75.5" diverter housing with 18" flowline, 16" divert line 1 x GE/Hydriil 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:	6 x Rolls Royce thrusters with steering motors, control panel and Hydraulic power unit, c/w Siemens 5,500 kW drive motors @ 750 rpm
Compensation:	1 NOV CMC-E- 1500/2500 active drill string compensator 25 ft stroke, 1,500 kip compensating, 2,500 kip tripping. 1 NOV CMC-1000-2000-25 active drill string compensator 25 ft stroke, 1,000 kip compensating, 2,000 kip tripping 1 RBS-IV, Elevated Backup Tong
Raised Back-up System:	