



ENSCO MS-1 (formerly Atwood Osprey)

GENERAL INFORMATION

Flag:	Liberian
Previous Name(s):	Atwood Osprey
Year Built:	2011
Builder:	Jurong Shipyard, Singapore
Design:	F&G ExD Millennium
Classification:	ABS, Maltese Cross A1 Column Stabilized Drilling Unit

MAIN DIMENSIONS

Length:	244 ft./74.4 m
Beam:	244 ft./74.4 m
Pontoons:	354 ft./108 m
Keel to Main Deck:	118 ft (36 m)
Moon Pool:	140 ft./42.7m x 37 ft./11.38m

MACHINERY

Main Power:	Four (4) x ABB model AMG 0710LT08 LSE, 6,000 kVA, 60 HZ, Diesel Engines - four (4) x Caterpillar C280-16, output 4,800 eKW each, at 900 rpm
Power Distribution:	11 kVAC distribution system for all AC rig pwr Generators
Emergency Power:	Generator one (1) x Kato 1,250 eKW 480 VAC, at 1,200 rpm generator; Engine one (1) x Caterpillar 3516B direct injection, turbo-charged, after-cooled, marine generator set.

Thrusters:

OPERATING PARAMETERS

Water Depth:	6,000 ft / 8,200 ft (with preset mooring)
Drilling Depth:	Rated 40,000 ft (12,191m)
Air Gap:	23 ft (7m)
Transit Speed:	2.5-3.5 knots variable
Variable Drilling Loads (Transit):	6,420 MT total
Operating Conditions:	11,500 MT total (8500 MT main deck and columns and 3,000 MT drill floor)
Survival Conditions:	6,420MT total
Transit Conditions:	11,500 MT total (8500MT main deck and columns and 3,000 MT drill floor)

DRILLING EQUIPMENT

Derrick:	One (1) Loadmaster, 215' clear working height, 2,000,000 pounds API hook load
Drawworks:	NOV AHD 1000 Active Heave Drawworks System.
Rotary:	One (1) NOV model RST-60½ with 60½" opening, rated 45,000 ft-lb @ 5 rpm continuous, 15 rpm intermittent
Top Drive:	NOV TDS-1000A, driven by GEB 20 AC motor, 63,000 foot pounds continuous torque, 96,000 foot pounds intermittent torque includes a PH 100 pipe handler and RBS-4 raised back-up system
Drill String Compensator:	NOV AHD 1000
Traveling Block:	NOV HTB-N 1000 7x72x2 with block retract system
Handling:	Two (2) dedicated NOV ST-120 hydraulic make up tool; Two (2) dedicated mouse holes; Two (2) NOV Model HR-IV HydraRacker with 12.5 MT lift capacity.
Cementing:	Third party free placement
Mud Pumps:	Four (4) x Lewco mud pumps model W-2215 triplex, 7,500 psi

Drill Pipe:	16,000 ft, range 3, S135, 5½" OD, 21.9 lbs/foot; 4000' range 3, S135, 5-1/2" OD 24.7 lbs/foot, 280ft range 2, HWDP 5½" OD, 60.13 lbs/foot; all have GPDS-55 connections. DSTJ
Drill Collars:	Drill Collars - 24 each 8" OD x 2-13/16" ID 6-5/8" Reg connections; 30 each 6-3/4" OD x 3" ID NC50 connections; 4 each 9-1/2" OD x 3" ID 7-5/8" Reg Connections

HOISTING EQUIPMENT

Cranage:	Two (2) Seatrax Series 108 Model S10832E, 186 ft booms, 230 kips at 82 ft static
Riser Gantry Crane:	2 x 25MT Main Hooks 2 x 20T Aux Hooks
Tubular Gantry Crane:	2 x 10MT Main Hooks

CAPACITIES

Liquid Mud Active & Reserve:	15,950 bbls
Base Oil:	5,260 bbls
Brine:	3,102 bbls
Bulk Material:	6,780 ft³ + 1,1663 ft³ in cement tank = 27,946 ft³
Sacks:	2,153 ft.²
Drill Water:	19,512 bbls
Potable Water:	10,900 bbls
Fuel Oil:	8,890 bbls

WELL CONTROL SYSTEMS

BOP:	18 ¾" 15k BOP system with two (2) Hydril annulars and five (5) rams.
BOP Handling:	ODS/Gantry Crane 250T; ODS / BOP and LMRP Main Deck Maintenance Skid Carts - Two (2) x 250 MT carts; ODS / Type BOP Underhull Guidance System; ODS / Tree Transporter and Conductor Hangoff cart 700 MT. NOV trip saver, 2000 kips max load
Control System:	Hydril Multiplex BOP control system
Riser Details:	Eighty-eight (88) jts Aker Solutions Marine Riser Class H Clip Riser, 75 ft each, 21"OD 0.875" wall thickness, two (2) C&K lines, two (2) Hyd lines, one (1) Mud boost line
Riser Tensioner:	Six (6) NOV Direct (In-line) Riser Tensioners, 50' stroke, 3,600 kip total capacity, one (1) NOV Tensioner control system with two (2) control panels located in the Drillers cabin and cellar deck
Diverter:	Hydril FS21X60, 500psi rated on pipe

MOORING

Winches:	Four (4) Amclyde CTW362/52 triple combination traction winch/windlass. Traction winches rated to 623 kips at 51.7 fpm, 808 kips stall.
Chain:	12 x 3¼ inch grade RQ-4 flash butt welded stud link, 3,500 ft length, MBL 1,570 kips
Wire:	24 x 3-5/8", 6x49, 6,000 ft length, MBL 1,609 kips;
Wire:	12 x 12 mt High Holding NG Stevpris (plus one spare)

HELIDECK

Design:	Designed to accommodate an EH-101 helicopter in accordance with CAP 437 design parameters
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ACCOMMODATION

Total Beds:	200 persons
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