



ENSCO 111 (formerly Atwood Beacon)

GENERAL INFORMATION

Flag:	Marshall Islands
Previous Name(s):	Atwood Beacon
Year Built:	2003
Builder:	Keppel Keels Shipyard, Singapore
Design:	KFELS Mod V Enhanced B-Class Deepwater Independent Leg Jack-Up
Classification:	ABS, @ A1 Independent Leg Mobile Offshore Drilling Unit. ABS ID Number 0342565

MAIN DIMENSIONS

Length:	234 ft
Breadth:	208 ft
Depth:	25 ft
Legs:	517 ft
Leg Spacing:	Transverse: 142 ft (43.279 meters); longitudinal: 129 ft (39.317 meters)
Cantilever:	70 ft
Spud Cans:	47.2 ft diameter

DRAFT AND DISPLACEMENT

Transit Draft:	16 ft
Displacement:	31,759 kips

MACHINERY

Main Power:	Five (5) Caterpillar Model 3516B, 1855HP @ 1200 RPM, Total of 9,275HP; nFive (5) KATO, 600 VAC, 1500 KW, 2500 KVA
Power	600V switchboard with six (6) NOI Ross Hill
Distribution:	2,200 amp drive bays
Emergency	One (1) Caterpillar Model 3508; 1000 BHP,
Power:	750KW with Caterpillar Model SR4 Generator

OPERATING PARAMETERS

Water Depth:	400 ft
Drilling Depth:	36,000 ft
Length Below Hull:	460 feet (140.201 meters) with 517 feet (157.574 meters) of leg installed
Air Gap:	32 ft
Transit Speed:	4.0 knots
Survival	
Conditions:	40 ft (12.191 m) waves; 100 knots wind
Criteria Design:	32 ft (9.753 m) waves; 70 knots wind

DRILLING EQUIPMENT

Derrick:	Woolslayer 160 ft with 36 x 36 ft base; 1,500,000 lbs. Static Hook Load
Drawworks:	NOI Emsco C3-type II, 3,300HP with three (3) GE752 High Torque 1,100HP Motors
Rotary:	Oilwell 49½" with GE752 High Torque 1,100HP DC motor
Top Drive:	Varco TDS 8SA with GE A20 AC motor, rated at 1,200HP continuous, 1,500HP intermittent with VFD variable speed AC motor drive.
Traveling Block:	Woolslayer 750 ton with Sheaves for 1-5/8" Wireline
Handling:	Varco PS-30 and BX elevators
Cementing:	Halliburton (3rd party free placement)
Mud Pumps:	Three (3) LEWCO Model W-2215 2,200HP triplex mud pumps each with two (2) GE752 1,100HP top mounted motors and belt drive configuration and maintenance free dampners. Fluid ends rated for 7,500 psi W.P.
Drill Pipe:	20000 ft 5" 19.50 ppf S-135 with GPDS55 connections; 5,000 ft 3½" 13.3 ppf S-135 with NC38 connections; 30 jts. 5" Hevi-wate; 38 jts. 3 1/2" Hevi-wate

Drill Collars:	24 jts. 8¼" OD spiral Drill Collars, 6-5/8" Reg. with zip; 24 jts. 7" OD spiral Drill Collars, NC50 with zip; 24 jts. 4¾" OD spiral Drill Collars, NC38 with zip (Equipped to run 5-7/8" drill string)
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HOISTING EQUIPMENT

Craneage:	Three (3) Seatrax Cranes with 120 ft booms, two (2) Model 4828 rated at 25.82 tons at 55 ft radius and one (1) Model 6024 rated at 36 tons at 40 ft radius
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CAPACITIES

Variable Deck	
Load:	7,500 kips
Cantilever Load:	2,000 kips
Liquid Mud:	2,868 bbls
Bulk Tanks:	11,100 cu ft
Sacks:	5,000 sacks
Drill Water:	19,920 bbls
Potable Water:	2,053 bbls
Brine Storage:	838 bbls
Base Oil Capacity:	647 bbls
Fuel Oil:	2,590 bbls

WELL CONTROL SYSTEMS

BOP:	Low Pressure BOP Stack (21¼", 2,000 psi WP); One (1) Varco-Shaffer Spherical annular BOP One (1) CIW Type "U" Double ram BOP with blind rams on top and pipe rams on bottom <u>High Pressure BOP Stack (13-5/8", 15,000 psi WP);</u> One (1) Varco-Shaffer 10,000 psi WP Spherical annular BOP; Two (2) CIW Type "U" Double ram BOPs
BOP Handling:	J.D. Neuhaus / ADJ-UH125MT-30; 2x125TONS
Control System:	Stewart & Stevenson Oil Tools / SSX224-3TL15 ELECTRO Pneumatic BOP/Diverter control system with 2 each S&S hydraulic power units; 3,000 psi
Diverter:	One (1) 49½" 500 psi WP fixed ABB Vetco KFDJ diverter system
Choke & Kill:	3-1/16" 15,000 psi WP with two (2) remote and two (2) manual chokes

MOORING

Winches:	Four (4) Skagit JUW-075 100,600 lb. line pull winches
Wire:	1 ½" x 2,500 ft x 4
Anchors:	10,000 lb. LWT anchor x 4

HELIDECK

Design:	Designed for S61 and S92 Helicopter and fully compliant with CAP 437 regulations
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JACKING AND SKIDDING SYSTEM

Make / type:	O.T.D. rack and pinion with leg locking system and single stage preload capability
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ACCOMMODATION

Total Beds:	112 persons (plus 5 bed sick bay)
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ADDITIONAL DATA

Watermaker:	One (1) waste heat type unit rated at 19,800 total GPD
Shale Shakers:	Five (5) Brandt LCM-3D/CM-2 cascading linear motion