## VANTAGE

### **TUNGSTEN EXPLORER** 6th GEN ULTRA DEEPWATER DRILLSHIP



781' 138' 62' 82' x 41' 200 POB

S-92 Compatible

12,000'

10,000'

### **General Information**

Rig Name
Rig Type
Rig Design
Year Built
Year Upgraded
Builder
Class

Flag

Tungsten Explorer Ultra Deepwater Drillship DSME 12,000 2013 N/A DSME DNV II-1A Ship- Shaped Drilling unit BIS DPS (3) Bahamas

CAP437, 75ft Octagon, Sikorsky S-61N,

### **General Specifications**

Hull Length	
Hull Breadth	
Hull Depth	
Moon Pool	
Accommodation	
Helideck	

### **Operational Capabilities**

Water Depth (Design) Water Depth (Outfitted) Water Depth Min Load Line Draft Load Line Displacement Operating Draft Operating Displacement Transit Draft Transit Displacement Drilling Depth Variable Load Max Setback

1,150' 42.6' 111,634 MT 39.3' 102,682 MT 27.8' 71,706 MT 40,000' 25,000 MT 1,000 MT 500 MT (In field Transit) up to 12 kts

#### For additional information please contact our Marketing offices:

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### **Storage Capacities**

Working Prossure	7 500 pci
Mud System	
	10,000 00010
Sack Store	10,000 sacks
Trip Tank	137 bbls
Mud Treatment Tanks	506 bbls
Slugs	752 bbls
Reserve Mud	10,561 bbls
Active Mud	8,883 bbls
Brine	5,118 bbls
Base Oil	5,118 bbls
Bulk Cement	11,300 ft <sup>3</sup>
Bulk Barrite/Bentonite	16,950 ft <sup>3</sup>
Potable Water	8,628 bbls
Drill Water	20,033 bbls
Diesel	59,628 bbls

# Working Pressure 7,500 psi Mud Pumps 4 x AKMH Wirth model TPK-7½ x 14 / 2200 CL, Gear driven, 2,200 hp 7,500 psi, 1 x Siemens Loher motor Shakers 8 x DP 626 BEM dual deck shakers (2 configured as Mud cleaners with 4 x 20" cones each) Mud Manifold 1 x Techdrill, API 6A PSL dual 5" NB 7,500 psi WP Cement System

Working Pressure Cement Manifold

**Cement Unit** 

15,000 psi 1 x Techdrill, API 6A PSL single 3" NB 15,000 psi WP Free Placement Schlumberger Dowell, CPS-3000 Ultra Deepwater Cementing Package, 15,000 psi WP

**Transit Speed** 

Revision Date: 4<sup>TH</sup> April 2019

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Drilling Package	1	BOP Handling	1 x AKMH BOP Trolley, SWL 500 MT c/w 1000 MT hang off adapter plate for
Derrick Hookload Capacity Racking Capacity	Aker Kvaerner Maritime Hydraulics (AKMH) Single Pyramid Dynamic Derrick, 46 ft. x 52 ft. base x 210 ft. clear working height, API-4F 3rd Edition 2.8 million lbs. static 6%" Drill pipe–368 stands x 135 ft.	Xmas Tree Handling	riser hang-off 2 x AKMH LMRP Overhead Gantry Crane, each SWL 75 MT 1 x AKMH Xmas Tree Trolley, SWL 150 MT 2 x AKMH Xmas Tree Overhead Gantry Crane, each SWL 75 MT
	(49,680ft) 9½" Drill collars– 8 stands x 135 ft. (992ft) 13%" casing - 35 stands x 135 ft. (4,725	Drill Pipe and Fishing E	
	ft.), or, 9%" casing - 54 stands x 135 ft. (7,290 ft.)	Drill Pipes Fishing Equipment	Various, details available on request Various, suitable to fish for Contractor's
Drawworks	or, 7" liner – 91 stands x 135 ft. (12,285 ft.) 1 x AKMH Wirth GH 9000-EG-01-AC		drill pipes
	electric motor driven 9,000 hp	Managed Pressure Drill	ling Equipment
Rotary Table	1 x AKMH Wirth RTSS 75½", hydraulically driven, 20 rpm, 1,500 ton capacity	Integrated Riser Joint	M-I Swaco BTR Rotating Control Device 2500 psi static, bore size 18 3/4", 9.1/4" inside, dual seal bearing assembly, DP
Iron Roughneck	1 x AKMH 1899 MKII Iron Roughneck for Well Center Operations, 2 <sup>3</sup> / <sub>8</sub> " to 9		size 4 1/2" to 6 5/8" Cameron Slim line annular closing devic 2000 psi, nitrile temp rated seal element
Topdrive	<sup>3</sup> ⁄ <sub>4</sub> " 1 x AKMH model MDDM-1250-AC-2M, 1,250 tons hoisting capacity, 750 tons quill capacity, AC motor driven, 101,200 ft. lbs. max continuous torque, 151,300 ft. lbs. intermittent, 0 -282 max rpm, 2 x 1150 hp AC motors	Flow Control	Cameron Flow Spool 2000 psi, 7 1/6" 3000 psi flow line connections Cameron Control Flow manifold 3000 p M-I Swaco Dual Automated Choke manifold 2 x 6", 5000 psi. HPU 5000 ps UPS 2 hrs backup as per API 16D M-I Swaco flow meter 1440 psi, 6", 240
Tubular Handling Capal	bilities	Flow & Equalization lines	gpm. 2 Flex hose flow lines 6" ID, 3000 psi 19
Pipe Feeding Machine	1 x AKMH Tubular Feeding Machine,		ft. and 1 Flex hose Equalization line 2" II
Tipe Teeding Machine	SWL 15 MT, 2-7/8" to 30", suitable for		3000 psi 190 ft.
19	handling 45 ft tubular		1
Pipe Rackers	2 x AMH Bridge Racking cranes, Lower	Well Control Equipmen	T Contraction of the second
	Guiding Arms, each 15 MT, $3\frac{1}{2}$ " to 13 $\frac{5}{8}$ "	Blowout Preventer	1 x Cameron BOP, 18 <sup>3</sup> / <sub>4</sub> " 15,000 psi, 6 x ram cavities (3 x Type TL doubles)
Riser Feeding Machine	1 X AKMH Riser Feeding Machine, SWL 40 MT, 2-7/8" to 54"	LMRP	1 x Cameron dual Type DL, 18 <sup>3</sup> / <sub>4</sub> ", 10,000 psi annular preventer
Manipulator Arm	1 x AKMH Drill Floor Manipulator arm, 3 $\frac{1}{2}$ " to 60"	Diverter	1 x Cameron x 75 <sup>1</sup> / <sub>2</sub> " 500 psi with 16" diverter lines, 16" flow line, 16" Mud Gas separator line, 8" trip tank line, 4" fill up
Pipe Deck Handling Crane	1 x AKMH PDPH, SWL 4.5 MT to 9 MT, 2 <sup>7</sup> / <sub>8</sub> " to 20"	BOP Control System	line. 21" nominal bore. Cameron Multiplex (MUX) BOP Control
TRUCK IN THE			System for up to 10,000 ft. water depth
Offline Capabilities		C & K Manifold	capability (12,000 ft. upgradeable) 1 x Techdrill, API 16C 3 <sup>1</sup> / <sub>16</sub> " 15k HP side
Offline Stand Building	1 x AKMH Stand building arm for offline tubular handling lifting capacity of 6.4		/ 4 <sup>1</sup> / <sub>16</sub> " 10k LP side, 2 manual chokes, 2 remote chokes, double 15K isolation valves, Glycol Injection unit, Spilt Buffer
Offline Roughneck	MT, 15 ft. to 45 ft. tubular, $3\frac{1}{2}$ " to $13\frac{5}{8}$ " 1 x AKMH 'Torque Master' for tubular range $2\frac{7}{8}$ " to 20" for offline operations.		system, Bypass Line, Port/Stbd emergency overboard line
Offline Mouseholes	2 x AKMH Hydraulic Mouseholes for up	Riser Equipment	
	to 13 <sup>5</sup> / <sub>8</sub> "	•	
Handling Systems		Riser	21", Cameron Load King / 15k psi, 4.5" ID Choke & Kill Line, 5k psi 4" ID booster line, 2 x 5K psi, 3.5" ID hydraulic
Deck Cranes	- 3 x Liebherr model BOS 4200-85, 85 mt max load at 9 m radius & 32.7 mt at 46 m radius (static), Auxiliary hook 15 mt max load at 51 m radius	Riser Tensioning	lines. 8 x AKMH Dual wire line tensioner, 3,600,000 lbs. combined capacity with a maximum net effective stroke of 12.5 ft.
	- 1 x Liebherr model BOS 4200-50, 50 mt max load at 9 m radius & 34.2 mt at 46 m radius (static), Auxiliary hook 15 mt max load at 51 m radius	Motion Compensators	- 1 x AKMH 680-1270-25 Crown Mounte Compensator, rated at 1,270 MT / 1,400 tons (static) and 680 MT / 750 tons (Compensation) with a 25 ft. stroke
Riser Gantry Crane	1 x AKMH Riser Gantry Crane, SWL 40 MT		<ul> <li>1 x AKMH Active Heave Compensator, rated at 20 MT x 2 with a 25 ft. stroke, Upgraded to AHC WD (while drilling)</li> </ul>

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### **Power Generation**

Main Engines	6 x STX MAN 14V32/40 diesel engines,
	7,000 kW @ 720 rpm c/w HHI
	8,437 kVA AC alternators
Emergency Engines	1 x STX MAN B&W diesel engine c/w
	HHI 2,625 kVA AC alternator

### Station Keeping & Propulsion System

DP Control System	DPS33, GE Converteam, Triplex DP +
	IJS 3 x independent GNSS + 2x independent
	acoustic systems
Thrusters	6 x 5.5 MW Rolls Royce Ulstein Aquamaster UUC 455 Azimuth (100 mt
	thrust nominal), variable speed, fixed pitch, fully azimuthing

LANG CONCREME

### Life Saving Systems

Lifeboats	6 x Norsafe, 70 man (95 kg/person)
	TEMPSC, davit launched lifeboats (210
	% of POB)
Fast Rescue Craft	1 x DSB FRC, 6 man
Life Rafts	16 x 25 man Viking 25DK+ inflatable life rafts (200% of POB)

THIRSTER EXPLORER

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