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**General Information**

<b>Rig Name</b>	Tungsten Explorer
<b>Rig Type</b>	Ultra Deepwater Drillship
<b>Rig Design</b>	DSME 6 <sup>th</sup> Gen
<b>Year Built</b>	2013
<b>Year Upgraded</b>	N/A
<b>Builder</b>	DSME
<b>Class</b>	ABS Ⓢ A1, Drillship, Ⓢ AMS, Ⓢ
	ACCU, Ⓢ DPS-3, UWILD, SH-DLA, RW
<b>Flag</b>	Bahamas

**General Specifications**

<b>Hull Length</b>	781'
<b>Hull Breadth</b>	138'
<b>Hull Depth</b>	62'
<b>Moon Pool</b>	82' x 41'
<b>Accommodation</b>	200 POB
<b>Helideck</b>	CAP437, 75ft Octagon, Sikorsky S-61N, S-92 Compatible

**Operational Capabilities**

<b>Water Depth (Design)</b>	12,000'
<b>Water Depth (Outfitted)</b>	10,000'
<b>Water Depth Min</b>	1,500'
<b>Load Line Draft</b>	42.6'
<b>Load Line Displacement</b>	111,634 MT
<b>Operating Draft</b>	39.3'
<b>Operating Displacement</b>	102,682 MT
<b>Transit Draft</b>	27.8'
<b>Transit Displacement</b>	71,706 MT
<b>Drilling Depth</b>	40,000'
<b>Variable Deck Load</b>	20,000 MT (Drilling) 20,000 MT (Transit)
<b>Max Setback</b>	1,000 MT
	500 MT (In field Transit)
<b>Transit Speed</b>	up to 12 kts

**Storage Capacities**

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

**Mud System**

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

**Cement System**

<b>Working Pressure</b>	15,000 psi
<b>Cement Manifold</b>	1 x Techdrill, API 6A PSL single 3" NB 15,000 psi WP
<b>Cement Unit</b>	Free Placement Schlumberger Dowell, CPS-3000 Ultra deepwater Cementing Package, 15,000 psi WP

**Drilling Package**

<b>Derrick</b>	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
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<b>Hookload Capacity</b>	2.8 million lbs static
<b>Racking Capacity</b>	6 <sup>5</sup> / <sub>8</sub> " Drill pipe—368 stands x 135 ft (49,680ft) 9 <sup>1</sup> / <sub>2</sub> " Drill collars— 8 stands x 135 ft (992ft) 13 <sup>3</sup> / <sub>8</sub> " casing - 35 stands x 135 ft (4,725 ft), or, 9 <sup>5</sup> / <sub>8</sub> " casing - 54 stands x 135 ft (7,290 ft) or, 7" liner – 91 stands x 135 ft (12,285 ft)
<b>Drawworks</b>	1 x AKMH Wirth GH 9000-EG-01-AC electric motor driven 9,000 hp
<b>Rotary Table</b>	1 x AKMH Wirth RTSS 75 <sup>1</sup> / <sub>2</sub> " , hydraulically driven, 20 rpm, 1,500 ton capacity
<b>Iron Roughneck</b>	1 x AKMH 1899 MKII Iron Roughneck for Well Center Operations, 2, 3 <sup>3</sup> / <sub>8</sub> " to 9 3/4"
<b>Topdrive</b>	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

### Tubular Handling Capabilities

<b>Pipe Feeding Machine</b>	1 x AKMH Tubular Feeding Machine, SWL 15 MT, 2-7/8" to 30", suitable for handling 45 ft tubular
<b>Pipe Rackers</b>	2 x AMH Bridge Racking cranes, Lower Guiding Arms, each 15 MT, 3 1/2" to 13 5/8"
<b>Riser Feeding Machine</b>	1 X AKMH Riser Feeding Machine, SWL 40 MT, 2-7/8" to 54"
<b>Manipulator Arm</b>	1 x AKMH Drill Floor Manipulator arm, 3 1/2" to 60"
<b>Pipe Deck Handling Crane</b>	1 x AKMH PDPH, SWL 4.5 MT to 9 MT, 2 7/8" to 20"

### Offline Capabilities

<b>Offline Stand Building</b>	1 x AKMH Stand building arm for offline tubular handling lifting capacity of 6.4 MT, 15 ft to 45 ft tubular, 3 1/2" to 13 5/8"
<b>Offline Roughneck</b>	1 x AKMH 'Torque Master' for tubular range 2 7/8" to 20" for offline operations.
<b>Offline Mouseholes</b>	2 x AKMH Hydraulic Mouseholes for up to 13 5/8"

### Handling Systems

<b>Deck Cranes</b>	- 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 - 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
<b>Riser Gantry Crane</b>	1 x AKMH Riser Gantry Crane, SWL 40 MT
<b>BOP Handling</b>	- 1 x AKMH BOP Trolley, SWL 500 MT c/w 1000 MT hang off adapter plate for riser hang-off - 2 x AKMH LMRP Overhead Gantry Crane, each SWL 75 MT
<b>Xmas Tree Handling</b>	- 1 x AKMH Xmas Tree Trolley, SWL 150 MT

- 2 x AKMH Xmas Tree Overhead Gantry Crane, each SWL 75 MT

### Well Control Equipment

<b>Blowout Preventer</b>	1 x Cameron BOP, 18 <sup>3</sup> / <sub>4</sub> " 15,000 psi, 6 x ram cavities (3 x Type TL doubles)
<b>LMRP</b>	1 x Cameron dual Type DL, 18 3/4", 10,000 psi annular preventer
<b>Diverter</b>	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 line. 21" nominal bore.
<b>BOP Control System</b>	Cameron Multiplex (MUX) BOP Control System for up to 10,000 ft water depth capability (12,000 ft upgradeable)
<b>C &amp; K Manifold</b>	1 x Techdrill, API 16C 3 <sup>1</sup> / <sub>16</sub> " 15k HP side / 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 system, Bypass Line, Port/Stbd emergency overboard line

### Riser Equipment

<b>Riser</b>	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 lines.
<b>Riser Tensioning</b>	8 x AKMH Dual wire line tensioner, 3,600,000 lbs combined capacity with a maximum net effective stroke of 12.5 ft.
<b>Motion Compensators</b>	- 1 x AKMH 680-1270-25 Crown Mounted Compensator, rated at 1,270 MT / 1,400 tons (static) and 680 MT / 750 tons (Compensation) with a 25 ft stroke - 1 x AKMH Active Heave Compensator, rated at 20 MT x 2 with a 25 ft stroke, Upgraded to AHC WD (while drilling)

### Power Generation

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

### Station Keeping & Propulsion System

<b>DP Control System</b>	DPS33, GE Converteam, Triplex DP + IJS
<b>Thrusters</b>	6 x 5.5 MW Rolls Royce Ulstein Aquamaster UUC 455 Azimuth (100 mt thrust nominal), variable speed, fixed pitch, fully azimuthing

### Life Saving Systems

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

### Drill Pipes & Fishing Equipment

<b>Drill Pipes</b>	Various, details available on request
<b>Fishing Equipment</b>	Various, suitable to fish for Contractor's drill pipes