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**General Information**

<b>Rig Name</b>	Emerald Driller
<b>Rig Type</b>	Independent Legs, Jackup, Cantilever
<b>Rig Design</b>	BMC 375
<b>Year Built</b>	2008
<b>Year Upgraded</b>	N/A
<b>Next UWILD</b>	Dec 2018
<b>Builder</b>	PPL Shipyard Pte Ltd
<b>Class</b>	ABS
<b>Flag</b>	Panama

**General Specifications**

<b>Hull Length</b>	236'
<b>Hull Breadth</b>	224'
<b>Hull Depth</b>	28'
<b>No. of Legs / Type</b>	3 / Triangular
<b>Leg Spacing</b>	155.2' Transverse 145.3' Longitudinal
<b>Total leg length</b>	506'
<b>Useable leg length</b>	432'
<b>Accommodation</b>	120 POB
<b>Helideck</b>	CAP437, 75ft Octagon, Sikorsky S-61N with ABS extension to suit S-92 with MTOM 12 ton
<b>Spud Can Diameter</b>	55.5'
<b>Bearing Pressure</b>	37.291 mt/m2

**Operational Capabilities**

<b>Water depth Max</b>	375'
<b>Water depth Min</b>	25'
<b>Transit Draft</b>	19.5'
<b>Drilling Depth</b>	30,000'
<b>Cantilever</b>	75' x 30'
<b>Max Cantilever Load</b>	2599 Kips
<b>Variable Deck Load</b>	7398 kips (Drilling) 6448 kips (Survival) 5000 kips (Transit)
<b>Max Setback</b>	648 kips 200 kips (In field Transit)

**Environmental**

<b>Max Wave Height</b>	40' @ 375' WD (Operating)
<b>Max Wave Height</b>	40' @ 200' WD (Operating)
<b>Max Wave Height</b>	45' @ 375' WD (Survival)
<b>Max Wave Height</b>	70' @ 200' WD (Survival)
<b>Max Wind Speed</b>	70 kts (Operating)
<b>Max Wind Speed</b>	100 kts (Survival)

**Storage Capacities**

<b>Diesel</b>	3,719 bbls
<b>Drill Water</b>	17,049 bbls
<b>Potable Water</b>	3,650 bbls
<b>Bulk Barrite/Bentonite</b>	5,826 ft <sup>3</sup>
<b>Bulk Cement</b>	5,826 ft <sup>3</sup>
<b>Base Oil</b>	1,232 bbls
<b>Brine</b>	1,216 bbls
<b>Active Mud</b>	1,246 bbls
<b>Reserve Mud</b>	2,777 bbls
<b>Slugs</b>	204 bbls
<b>Mud Treatment Tanks</b>	182 bbls
<b>Trip Tank</b>	50 bbls
<b>Sack Store</b>	5,000 sacks

**Mud System**

<b>Working Pressure</b>	7,500 psi
<b>Mud Pumps</b>	3 x AKMH Wirth TPK 7½" x 14" 2200 CL, 2200 hp, 7,500 psi, c/w 2 x GE AC motors

**Shakers**

5 x NOV Brandt VSM 300 BEM  
dual deck shakers (1 configured  
as Desander / Desilter)

**Mud Manifold**

1 x forum/ RB Pipetech 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 Forum/RB Pipetech API 6A PSL, single 3" NB 15,000 psi WP
<b>Cement Unit</b>	Free Placement

### Drilling Package

<b>Derrick</b>	Loadmaster offset derrick, 35 x 35 ft @ base; 14 x 16 ft @ top x 170 ft clear working height
<b>Capacity</b>	1.5 million lbs static hook load
<b>Racking Capacity</b>	- 413 Stands of 5 $\frac{1}{4}$ " drill pipe range II triples x 93 ft (38,409 ft) - 12 Stands of 9 $\frac{3}{4}$ " drill collar range II triples x 93 ft (1,116 ft)
<b>Drawworks</b>	Maritime Hydraulics Wirth GH 3000 EG-AC-SV-CL (3,000 hp)
<b>Rotary Table</b>	Maritime Hydraulics RTSS - 49 $\frac{1}{2}$ " H hydraulically operated, 800 tons rated, Continuous torque of 29,502 ft-lbs @ 20 rpm
<b>Iron Roughneck</b>	1 x AKMH model MH 1898 Mk-I Manual roughneck for tubular range 3 $\frac{1}{2}$ " to 9 $\frac{3}{4}$ ". MU 100,000 ft-lbs, BO 125,000 ft-lb
<b>Topdrive</b>	Maritime Hydraulics DDM-650-AC-1M-1S-1150, lifting capacity 650 tons, drilling capacity 650 tons, 58,270 ft lbs max continuous torque @ 93 rpm, 89,000 ft lbs intermittent, 0-268 Max rpm, 1 x 1150 hp AC motor
<b>Catheads</b>	2 x AKMH BX24 Mk I electrically controlled hydraulic catheads, 31,473 lbs line pull
<b>Access Basket</b>	1 x MH Hydraulic Standard Access Basket Basket/ MK-I-46-1, SWL 300 Kg

### Offline Capabilities

<b>Offline Tubular</b>	1 x Crane Safe OAC offline activities crane, 5,000 lbs SWL
<b>Offline Mouseholes</b>	1 x Fixed, 1 x Pneumatic
<b>Offline Spinner</b>	1 x Hawk Ind's HawkJaw Jr model 65K-950-JR hydraulic power tong for tubular range 3 $\frac{1}{2}$ " to 8"

### Handling Systems

<b>Deck Cranes</b>	- 1 x Baker Marine 2250-I w/ 120 ft boom, main hoist ratings - 68 mt @ 25 ft radius and 14.28 mt @ 127.5 ft radius (static), 45.35 mt @ 25 ft radius and 9.52 mt @ 127.5 ft radius (dynamic) - 1 x Baker Marine 1600-I w/ 120 ft boom, main hoist ratings - 39.04 mt @ 25 ft radius and 5.89 mt @ 126.54 ft radius (static), 26.02 mt @ 25 ft radius and 3.93 mt @ 126.54 ft radius (dynamic) - 1 x Baker Marine 900-I w/ 100 ft boom, main hoist ratings - 22.67 mt @ 20 ft radius and 6.84 mt @ 102.7 ft radius (static), 15.07 mt @ 20 ft radius and 4.55 mt @ 102.7 ft radius (dynamic)
<b>BOP Handling</b>	2 x OHS model NEC 4520 pneumatically operated BOP hoists each with a capacity of 60 mt 2 x OHS BOP / Xmas Tree skidding trolleys each rated at 100 mt
<b>Xmas Tree Handling</b>	2 x Xmas Tree trolley beams each rated at 15 mt c/w hoist
<b>Conductor Tensioner</b>	1 x Patriot 200 mt capacity CTU with 305 mm stroke

### Well Control Equipment

<b>Ram Preventers</b>	2 x Cameron 18 $\frac{3}{4}$ " 15,000 psi, TL doubles
<b>Annular Preventer</b>	1 x Cameron 18 $\frac{3}{4}$ " 10,000 psi, DL annular BOP
<b>Test Stump Diverter</b>	18 $\frac{3}{4}$ ", BX-164, 15,000 psi, flanged 1 x Vetco Gray 49 $\frac{1}{2}$ " KFDJ-500 STD 500 psi (27 $\frac{1}{2}$ " ID) diverter with 16" flow line and 2 x 12" overboard lines
<b>BOP Control System</b>	CAD Control Systems BOP / Diverter control unit, 3000 psi WP including local control, driller's control and tool pusher's control stations
<b>Accumulator C &amp; K Manifold</b>	58 x 15 gals accumulators, 3000 psi 1 x RB Pipetech API 16C 3 $\frac{1}{16}$ " 15k HP side / 4 $\frac{1}{16}$ " 10k LP side 2 x power chokes, 2 x manual chokes 1 x Remote Choke Console

### Power Generation

<b>Main Engines</b>	5 x CAT 3516B Diesel engines, 1383 kW, 1200 rpm
<b>Main Generators</b>	5 x Kato AC alternator, 2150 kVA, 1720 kW, 1200 rpm, 690V, 60 Hz, 3 Ph
<b>Emergency Engines</b>	1 x CAT 3508B DITA Diesel engine, 900 kW, 1800 rpm
<b>Emergency Generators</b>	1 x Leroy Somer AC alternator, 900 kVA, 720 kW, 1800 rpm, 480V, 60 Hz, 3 Ph

### Jacking, Skidding Systems

<b>Jacking System</b>	Baker Marine model BMPL J800-2P, c/w 72 active drive pinions powered by 36 N $^{\circ}$ 46 kW AC drive motors (12 per jackcase, 4 per chord), normal jacking capacity 19,800 mt
<b>Cantilever Skidding</b>	Baker Marine, four hydraulic cylinders each rated at 458 mt, c/w hydraulically operated locking pins, average skidding speed 0.5 m/min
<b>Drill Floor Skidding</b>	Baker Marine, two hydraulic cylinders each rated at 231 mt pulling and 263 mt pushing, c/w hydraulically operated locking pins, average skidding speed 0.5 m/min
<b>Mooring System</b>	4 x 65 HP Mentrade Anchor Winches, 6 mt delta flippers

### Life Saving Systems

<b>Lifeboats</b>	3 x 60 man capacity Neptune Marine NPT75F TELB davit launched lifeboats (150% of POB)
<b>Fast Rescue Craft</b>	1 x 15 man capacity EC W.H. Brennan model GJ6.0B-1 FRC, crane launched with an operational endurance of 4 hrs at 30 knots with 3 occupants
<b>Life Rafts</b>	4 x 35 man DSB LR97-LSRI inflatable life rafts launched via Global model 32/4.5 davits, located one each port and starboard (116% 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