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General Information

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

General Specifications

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

Operational Capabilities

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

Environmental

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

Storage Capacities

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

Mud System

Working Pressure	7,500 psi
Mud Pumps	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

Working Pressure	15,000 psi
Cement Manifold	1 x Forum/RB Pipetech API 6A PSL, single 3" NB 15,000 psi WP
Cement Unit	Free Placement

Drilling Package

Derrick	Loadmaster offset derrick, 35 x 35 ft @ base; 14 x 16 ft @ top x 170 ft clear working height
Capacity	1.5 million lbs static hook load
Racking Capacity	- 413 Stands of 5 $\frac{7}{8}$ " 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)
Drawworks	Maritime Hydraulics Wirth GH 3000 EG-AC-SV-CL (3,000 hp)
Rotary Table	Maritime Hydraulics RTSS - 49 $\frac{1}{2}$ " H hydraulically operated, 800 tons rated, Continuous torque of 29,502 ft-lbs @ 20 rpm
Iron Roughneck	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
Topdrive	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
Catheads	2 x AKMH BX24 Mk I electrically controlled hydraulic catheads, 31,473 lbs line pull
Access Basket	1 x MH Hydraulic Standard Access Basket Basket/ MK-I-46-1, SWL 300 Kg

Offline Capabilities

Offline Tubular	1 x Crane Safe OAC offline activities crane, 5,000 lbs SWL
Offline Mouseholes	1 x Fixed, 1 x Pneumatic
Offline Spinner	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

Deck Cranes	- 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)
BOP Handling	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 2 x Xmas Tree trolley beams each rated at 15 mt c/w hoist
Xmas Tree Handling	1 x Patriot 200 mt capacity CTU with 305 mm stroke

Well Control Equipment

Ram Preventers	2 x Cameron 18 $\frac{3}{4}$ " 15,000 psi, TL doubles
Annular Preventer	1 x Cameron 18 $\frac{3}{4}$ " 10,000 psi, DL annular BOP
Test Stump Diverter	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
BOP Control System	CAD Control Systems BOP / Diverter control unit, 3000 psi WP including local control, driller's control and tool pusher's control stations
Accumulator C & K Manifold	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

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

Jacking, Skidding Systems

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

Life Saving Systems

Lifeboats	3 x 60 man capacity Neptune Marine NPT75F TELB davit launched lifeboats (150% of POB)
Fast Rescue Craft	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
Life Rafts	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

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