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General Information

Rig Name	Sapphire Driller
Rig Type	Independent Legs, Jackup, Cantilever
Rig Design	BMC 375
Year Built	2009
Year Upgraded	N/A
Next UWILD	June 2019
Builder	PPL Shipyard Pte Ltd
Class	DNV
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	38 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	7498 kips (Drilling) 6500 kips (Survival) 5000 kips (Transit)
Max Setback	900 kips 272 kips (In field Transit)

Environmental

Max Wave Height	45' @ 375' WD (Operating)
Max Wave Height	45' @ 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	4,114 bbls
Drill Water	22,031 bbls
Potable Water	3,596 bbls
Bulk Barrite/Bentonite	5,826 ft ³
Bulk Cement	5,826 ft ³
Base Oil	1,273 bbls
Brine	1,271 bbls
Active Mud	1,000 bbls
Reserve Mud	3,000 bbls
Slugs	75 bbls
Mud Treatment Tanks	176 bbls
Trip Tank	50 bbls
Sack Store	5,000 sacks

Mud System

Working Pressure	7,500 psi
Mud Pumps	3 x Eweco E-2200-15, 9"x15", 2200 hp, 7,500 psi c/w 2 x GEB 22D AC motors
Shakers	4 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 160 ft clear working height
Capacity	1.5 million lbs static hook load
Racking Capacity	- 353 Stands of 5 7/8" drill pipe range II triples x 93 ft (32,829 ft) - 14 Stands of 9 1/2" drill collar range II triples x 93 ft (1,032 ft) - 12 Stands of 8" drill collar range II triples x 93 ft (1,116 ft)
Drawworks	Sense EDM Ultrahoist® 750-3000, c/w 2 x GEB22 AC motors (3,000 hp)
Rotary Table	NOV D-495 7K, 49 1/2" hydraulically operated, 1,000 tons rated, 39,880 ft lbs @ 20 rpm
Iron Roughneck	1 x Weatherford Torkwrench 10-100 IR with PowerArm 2.1, tubular range 2 1/2" to 10", MU & BO torque, 100,000 ft lbs, Max Spin-in/Spin-out torque 3,212
ft-lbs	
Topdrive	Canrig model 1275 AC, lifting capacity 750 ton, drilling capacity 650 tons, upgradeable to 750 ton). 51,400 ft lbs max continuous torque @ 120 rpm, 70,800 ft lbs intermittent, 0-265 max rpm, 1 x 1,150 hp GEB20 AC motor
Catheads	2 x Sense EDM GX electrically controlled hydraulic catheads, 33,046 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	2 x Fixed Mouseholes
Offline Spinner	1 x Grayspin, Mark 30 for tubular range 3 1/2" to 9 1/2"

Handling Systems

Deck Cranes	- 1 x Baker Marine 2250-I w/ 120 ft boom, main hoist ratings - 50 mt @ 25 ft radius and 13.61 mt @ 127.5 ft radius (static), 33.32 mt @ 25 ft radius and 9.07 mt @ 127.5 ft radius (dynamic) - 1 x Baker Marine 1600-I w/ 120 ft boom, main hoist ratings - 40.81 mt @ 25 ft radius and 10 mt @ 126.54 ft radius (static), 27.21 mt @ 25 ft radius and 6.66 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 JD Neuhaus model EH 60 pneumatically operated BOP hoists each with a capacity of 60 mt
Xmas Tree Handling	1 x Xmas Tree trolley beams rated at 30 mt c/w hoist
Conductor Tensioner	1 x Patriot 225 mt capacity CTU with 350 mm stroke

Well Control Equipment

Ram Preventers	2 x Control Flow, 13 5/8", 10,000 psi, Type "U" doubles or 2 x Cameron, 18 3/4", 15,000 psi, Type "TL" doubles
Annular Preventer	1 x Control Flow, 13 5/8", 5,000 psi, annular type "GK" or 1 x Cameron, 18 3/4", 10,000 psi, annular type "DL"
Test Stump	13 5/8", BX-159, 10,000 psi, flanged or 18 3/4", BX-164, 15,000 psi, flanged
Diverter	1 x Vetco Gray 49 1/2" KFDJ-500 STD 500 psi (27 1/2" ID) diverter with 14" 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	58 x 15 gals accumulators, 3000 psi
C & K Manifold	1 x Forum/RB Pipetech, API 16C, 3 1/16" 15K HP side / 3 1/8", 5K, LP side 2 x power chokes, 2 x manual chokes 1 x Remote Choke Console

Power Generation

Main Engines	5 x CAT 3516B HD DITA Diesel engines, 1603 kW, 1200 rpm
Main Generators	5 x Baylor 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	One of the lifeboats is designed and approved by Class to be used as the rescue craft
Life Rafts	6 x 25 man Viking 25DK+ inflatable life rafts (125% of POB)

Drill Pipes & Fishing Equipment

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