Rig Name: Gulf Driller III
Flag/ Port of Registration: Liberia / Monrovia
Call sign: TBC
Built: 2014
IMO Number: TBC
MMSI Number: TBC

**GENERAL**

Class: ABS
Notation: ABS • A1 Self-Elevating Drilling Unit, 2006, CDS 2011, CPS (PSPC), CRC

**PRINCIPAL DIMENSIONS**

Length o.a: 59.745m
Beam o.a: 55.78 m
Depth moulded: 7.62m
Transit Draught: 4.8m
No. of legs: 3
Leg length: 125.3m
Spud can diameter: 12.09m
Spud can height: 4.57m

**Design Environment**

Service area: GoM, West Africa, Persian Gulf
Water depth: 300ft (91.44m)
Air Temperature: -10°C min. to 45°C ~ max.
Humidity: 20% min. to 100% max.
Wind Survival Operations: 100kts

**CARGO CAPACITIES**

Deck Load: 9000kps
Pipe rack: 540lbs/ft²
Main deck (outside pipe rack): 540lbs/ft²
Quarter's deck: 90Ibs/ft²
House Tops: 150Ibs/ft²
Machinery Spaces: 270Ibs/ft²
Sack stores: 540lbs/ft²

**MACHINERY/PROPULSION**

Main engines and Generators:
- CATERPILLAR 3516B HD Offshore Generator Set: 53ET, 1530kW, 600V, 60Hz, 1800rpm
- Emergency: CATERPILLAR 3412C Emergency Generator Set: 1 set 550kW, 480V, 60Hz, 1800rpm
- Fuel Purifier: 250 GPH Two (2) ALPHA-LAVAL MAB or equal.
- Oily Water Sep: 5m³/h, the max oil content<15ppm.
- Sewage Plant: 1 x 110 man capacity, gray & black water.
- Preload System: 3 centrifugal, vertical submersible pumps, 500m³/h @ 50m head.
- FW Generator: 2 x 30m³/hr
- Air Compressors: 2 x rig air compressor 1182m³/hr @ 8bar/460V-3P-60HZ/IP54, 1 x bulk air compressor 1182m³/hr @ 8bar/460V-3P-60HZ/IP54

**FIRE FIGHTING & SAFETY**

- Fire Fighting: 2 x pumps 160 m³/hr @ 7 bar, RPM 3500 rpm/460V-3P-60HZ/IP55
- Life Boats: 110 person/diesel drive/speed25knot
- Life Rafts: 5 x 25 men

**HELIDECK**

1 x Helideck suitable for Sikorsky S-61N helicopter

**NAVIGATION EQUIPMENT**

including electronic aids, electronic telecommunications system, radio telecommunication equipment, sensing, indicating and control equipment in accordance with the Regulatory Body requirement.

**COMMUNICATION EQUIPMENT (GMDSS)**

2 INMARSAT C
2 GMDS Radio MF/HF
3 VHF radios
1 Satellite EPIRB
1 Navtex receiver
6 hand held VHF transceivers
2 Radar Transponders for lifeboats, the other 2 in jacking control room.
1 Aviation VHF installed in the Jacking Control room for Helicopter communications
2 Waterproof VHF radios for use in the Survival Capsules (portable)
2 VHF LOCATED IN JACKING CONTROL ROOM (portable)
2 VHF Radio located in cranes
6 UHF handheld transceiver
1 Fleet Broadband 500

**ACCOMMODATION**

The accommodation and mess facilities are fit for 110 persons. The accommodation shall follow the guidelines for ILO regulations and be able to house 110 men in 4-man cabins (Have Approached Flag state for release).

**REFRIGERATED STORAGE CAPACITY**

Cold store: 1 x 13 m³ walk in Freezer
Chiller: 1 x 16 m³ walk in Chiller room
Provisions: 1 x 25 m³ walk in Provisions room

**DECK MACHINERY**

Main Deck Crane: 1 x 120ft, 50ton at 24ft/diesel drive
1 x 100ft, 50ton at 21ft/diesel drive
4 Point Moor System: 4 x Single Drum winches, Brake Hold 1170kN, first layer
Anchors: 4 x anchors, 3,175T ea
Towing Gear: bridle, 8m* ∮ 66mm steel chain; Hook-up, 5ton Air tugger winch Rating, MBL 320T

**STORE CAPACITIES**

Ballast water: 191,310 ft³ (5,418 m³)
Drill water: 36,263 ft³ (1,027 m³)
Potable water: 13,276 ft³ (376 m³)
Brine tank: 5,049 ft³ (143 m³)
Base oil tank: 5,049 ft³ (143 m³)
Mud tank: 25,635 ft³ (726 m³)
Diesel oil: 23,092 ft³ (654 m³)
Misc tank: 2,471 ft³ (70 m³)
**DRILLING PACKAGE**

- **Drill pipe rack sizing:** Cantilever beam pipe rack, 272 tonne; Main Deck pipe rack, 622 tonne.
- **Derrick:**
  - **Maximum Hook:** 750ST,
  - **Clearance Height:** 160FT
- **Derrick Base:** 40FT × 35FT
- **Rotary Table:**
  - TSC495H
  - Continuous torque: 35000IB-FT
  - Insert bowl #1
  - Insert bowl #2
  - Insert bowl #3

**HYDRAULIC CONTROL**

- **Set-back:** 750kips
- **Maximum Cantilever load:** (Combined Hook+ rotary+ setback):
  - 650kips at 50/15, 1700kips at 50/0
- **Cantilevered Skid:** Cantilever XY skid, 50ft by 15ft
- **Draw-works:** TSC D3000 Power: 2X1500HP
  - Top Drive: NOV TDS-8SA GEB-20 600VAC MOTOR
- **Traveling Equipment:** 750 short tons Traveling Block.
- **Rig Instrumentation:** TSC drilling instrumentation system is completed with local sensors, transmitters, J-boxes, data Hubs, display screen/ system controller, and patented software.
- **Iron Roughneck:**
  - NOV TS-130 Pipe handling range: 3 1/2" ~ 10 " OD
  - Max. makeup torque: 100,000 ft-lbs
  - Max. breakout torque: 120,000 ft-lbs
  - Spinner torque: 3,000 ft-lbs
  - Frame rotation: 360 degree
- **Camera:**
  - Racking/finger board, two (2)
  - Travelling block, one (1)
  - Mud pump room, one (1)
  - V door ramp one (1)
  - Drill floor, one (1)
  - BOP area, one (1)
  - Mud pit, one (1)
  - Shakers area, one (1)
- **Air Hoists:**
  - Air Hoists Ansell Jones
  - Air hoist on Fingerboard level 2*600KG
  - Air hoist on casing board level 1*600KG
  - Air hoist on Drilling floor 3*50KN
  - Air hoist on BOP platform 4*50KN
- **Tubing Equipment:** 60.3-mm to 172-mm (2-3/8" to 5") tubing or drill pipe.

**WELL CONTROL EQUIPMENT**

- **Shale Shaker**
  - MISWACO Meerkat PT Screen Area: Net (API)15.9 sq. ft., PT screens; "G" Force max 6.9 G's for liner motion
- **Diverter**
  - GE KFDJ-500, 49-1/2" 500PSI
- **BOP stack**
  - CAMERON, 21-1/4" 2000PSI
  - CAMERON, 13-5/8" 15000PSI
- **Manifolds**
  - WOM, 7500psi & 15000psi

**MUD SYSTEM**

- **HIGH PRESSURE MUD SYSTEM**
  - System working pressure: 7,500 psi
  - System test pressure: 11,250psi

- **MUD PUMPS**
  - 3 X TSC Work Force -2000hp triplex single mud, Triplex
  - Motor type: Yongji/Fluid end type
  - Maximum working pressure: 7,500psi
  - Test pressure: 11,250psi
  - Pump stroke counter type: supersonic
  - Discharge/suction line ID: 5" & 12" for mud pump
  - Mud pump pulsation dampener type: diagram Nitrogen type
  - Reset Relief Valve: 3" Reset Relief Valve
  - Working flow rate per pump at 90% of max SPM:
    - Liner size: 5" to 7-1/4"
  - Working flow rate at 90% of max SPM:
    - Liner size: 5" to 7-1/4"

- **CANTILEVER ALLOWABLE DRILLING/WORK-OVER LOAD**
  - Cantilever Allowable Drilling/Work-over loads indicated are the sum of setback, hook, rotary, and conductor tension loads (in Kips) based on the cantilever assembly weight and center of gravity. Any increase in cantilever assembly weight will result in a decrease in the allowable Drilling/Work-over loads.

**SUPER M2 – Self-Elevating Drilling Unit**

- **Drill pipe rack sizing:** Cantilever beam pipe rack, 272 tonne; Main Deck pipe rack, 622 tonne.
- **Derrick:**
  - **Maximum Hook:** 750ST,
  - **Clearance Height:** 160FT
- **Derrick Base:** 40FT × 35FT
- **Rotary Table:**
  - TSC495H
  - Continuous torque: 35000IB-FT
  - Insert bowl #1
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  - Top Drive: NOV TDS-8SA GEB-20 600VAC MOTOR
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  - Spinner torque: 3,000 ft-lbs
  - Frame rotation: 360 degree
- **Camera:**
  - Racking/finger board, two (2)
  - Travelling block, one (1)
  - Mud pump room, one (1)
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  - Drill floor, one (1)
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- **Air Hoists:**
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SUPER M2 – Self-Elevating Drilling Unit