

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,
 2008,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
 Hull Material : AH36(Main Hull), EH36(Spud can), B(Acc.)
 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° ~max.
 Humidity: : 20% min. to 100%max.
 Wind Survival Operations : 100kts
 Seawater
 Temperature : 0°C min. to 32°
 Density : 1025 kg/m3 (For design purposes)
 Corresponding wave period: 13.5sec
 Wave Height :
 15.24m(Survival, of the water depth 300ft);
 16.46m(Survival, of the water depth 250ft)

>CARGO CAPACITIES

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

>MACHINERY/PROPULSION

>Main engines and Generators:
 CATERPILLAR 3516B HD Offshore
 Generator Set: 5SET,1530eKW, 600V, 60HZ
>Emergency : CATERPILLAR 3412C Emergency
 Generator Set: 1 set 550eKW, 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/D.
>Air Compressors: 2 x rig air compressor
 1182m³/h@9bar/460V-3P-60HZ/IP44.
 1 x bulk air compressor
 1182m³/h @8bar/460V-3P-60HZ/IP44
>Cargo Pumps : 2 x Fuel oil transfer pumps, 13m³/h @
 4.5ba RPM 1750 rpm/460V-3P-60HZ/IP55
>Jacking System : NOV-BLM D60H/SUPER MOD2
>Rack Chock Sys : Friede & Goldman ARCOS

>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/speed≥6knot
 1 x Rescue Boat (6 men)
>Life Rafts : 5 x 25 men

>HELIDECK

1 x Heli-deck 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 GMDSS RadioMF/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, 3.1752T ea
>Towing Gear : bridle , 8m* 5 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 : 23,092ft3 (654 m3)
 Misc tank : 2,471 ft3 (70 m3)

SUPER M2 - Self-Elevating Drilling Unit

>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 X 35FT

>Rotary Table: TSC495H
Max.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; 1,700kips at 50/0

>Cantilevered Skid: Cantilever XY skid: 50ft by 15ft

>Draw-works: TSC D3000 Power:2X1500OEM
Top Drive: NOV TDS-8SA GEB-20 600VAC MOTOR
1150HP
INTERMITTENT TORQUE
RATING:95,000FT-IBS@ 0RPM
MAXIMUM SPEED RATING:14,500FT-
IB@270RPM
CONTINUOUS TORQUE
RATING:62,250FT-IB@94RPM

>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-120 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

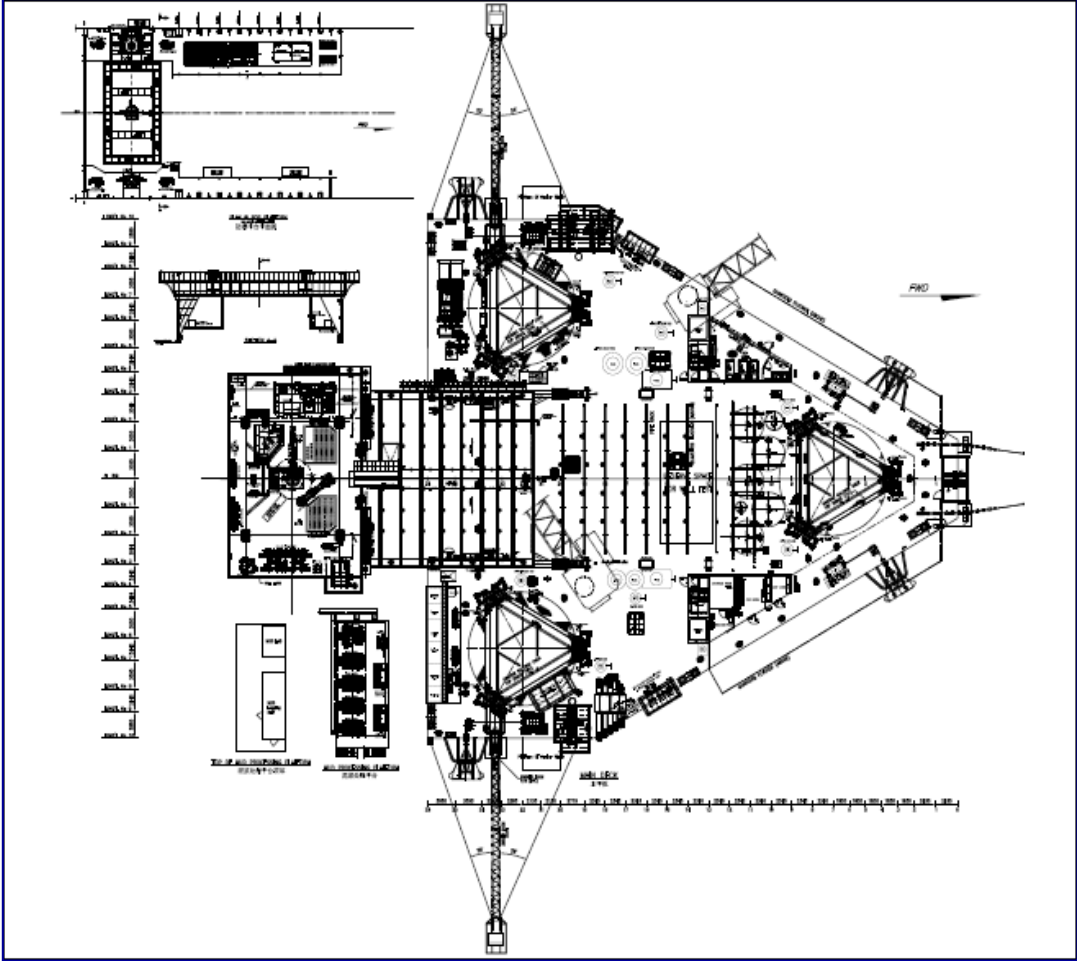
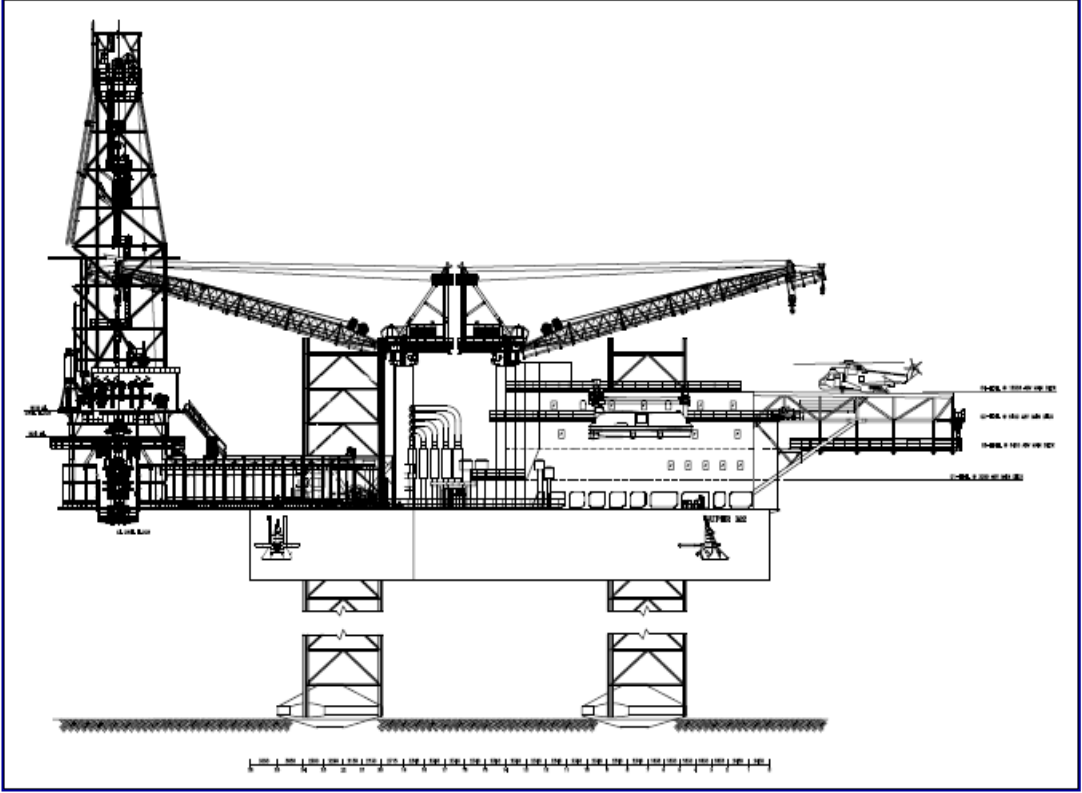
>MUD PUMPS
3 X TSC Work Force -2000hp triplex single mud, Triplex
Mud pump drive motors/pump: 2
-Motor type: Yongji/Fluid end type
-Maximum working pressure: 7,500psi
-Test pressure: 11,250psi
Pump stroke counter type: supersonic
Discharge/suction line ID: 5" & 12" for mud pump
Mud pump pulsation dampener 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"

>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.

Cantilever outreach (A) (feet)	Drill floor offset (B) from Jack-up centerline (feet)															Port (+ve)
	Starboard (-ve)	-15.0	-12.0	-10.0	-8.0	-5.0	-2.0	0.0	2.0	5.0	8.0	10.0	12.0	15.0		
50.0	883	1073	1215	1373	1643	1963	1809	1585	1297	1054	912	784	614	50.0		
49.0	945	1139	1285	1446	1722	2050	1902	1672	1376	1127	982	851	676	49.0		
48.0	1009	1208	1357	1522	1805	2140	1998	1762	1459	1204	1055	920	740	48.0		
47.0	1075	1279	1432	1601	1890	2200	2099	1856	1545	1283	1130	991	807	47.0		
46.0	1145	1353	1510	1683	1979	2200	2200	1954	1634	1365	1208	1066	877	46.0		
45.0	1217	1431	1591	1768	2072	2200	2200	2056	1728	1451	1290	1144	949	45.0		
42.0	1393	1620	1790	1978	2200	2200	2200	2200	1939	1645	1474	1319	1112	42.0		
40.0	1480	1713	1888	2081	2200	2200	2200	2200	2052	1749	1573	1413	1200	40.0		
38.0	1571	1811	1990	2189	2200	2200	2200	2200	2170	1858	1676	1511	1292	38.0		
35.0	1716	1966	2153	2200	2200	2200	2200	2200	2200	2031	1841	1668	1438	35.0		
34.0	1767	2020	2200	2200	2200	2200	2200	2200	2200	2092	1898	1723	1489	34.0		
32.0	1871	2132	2200	2200	2200	2200	2200	2200	2200	2200	2017	1837	1595	32.0		
30.0	1982	2200	2200	2200	2200	2200	2200	2200	2200	2200	2143	2000	1707	30.0		
28.0	2098	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2082	1824	28.0		
25.0	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2012	25.0		
20.0	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	20.0		
15.0	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	15.0		

The values in the chart are in kips

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