



Unit : Gulf Driller V
Type: : 300 foot jack-up / Super M2
Class : ABS
Built : 2015
Rig Operator : Bluewhale Offshore

Email : marketing@bluewhaleoffshore.com



Unit Specifications

Registered Name	Gulf Driller V
Rig Type	Self Elevating Drilling Unit / Jack Up Rig
Unit/Design/Shape	Friede & Goldman, Super M2 F&G L780 Mod II Jackup Design
Unit Flag	Liberia
Unit Classification	ABS #A1 Self-Elevating Drilling Unit #CDS CPS CRC
IMO Certification	IMO registration upon contract commitment
Year of Construction	2015
Construction Yard	Yantai CIMC Raffles Offshore Ltd
Last Major Upgrade	N/A - Not applicable

Main Dimensions/Technical Description

Hull Length	196 ft (59.75 m)
Hull Width	183 ft (55.78 m)
Hull Depth	25 ft (7.62 m)
Number of legs/length	3 x 411 ft (3 x 125.3 m)
Spud Can Diameter	40 ft (12.09 m)
Spud Can Height	15 ft (4.57 m)
Cantilever Envelope	50 ft x 30 ft (15.24 m x 9.14 m)
Maximum Hook Load	1,500 kips (680 metric tonnes)
Maximum Rotary Load	1,500 kips (680 metric tonnes)
Maximum Setback Load	750 kips (340 tonnes)

Storage Capacities

Fuel	22,177 ft ³ (628 m ³)
Mud Processing Tank	1,091 ft ³ (31 m ³)
Active Liquid Mud	12,868 ft ³ (364 m ³)
Drilling Water	36,268 ft ³ (1,027 m ³)
Potable Water	13,136 ft ³ (372 m ³)
Sack Storage	5,000 sacks
Bulk Bentonite/Barite	204 m ³ (3 x 68 m ³)
Bulk Cement	136 m ³ (2 x 68 m ³)

Jackup Systems

Jacking Systems	NOV-BLM / D60H / SUPER M2; 27 jacking units; Jacking capacity of 880 kips/unit; Jacking speed of 1.8 ft/min
Raw Water System/Ballast	3 sets of Ritz-Tower pumps; each with power rating of 132 kW and a capacity of 500 m ³ /h @ 5 bar

Operational Capabilities

Maximum Water Depth	300 ft (91 m)
Maximum Drilling Depth	30,000 ft
Thrusters	N/A - Not applicable

Variable Load Capacity

Variable Load Capacity	Transit VL capacity: 3,306 kips (1,500 t) Drilling VL capacity: 6,784 kips (3,080 t) Survival VL capacity: 6,000 kips (2,722 t) Jacking VL capacity: 3,306 kips (1,500 t)
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Environmental Limits

Environmental Limits	Air Temperature: -10°C min. to 45°C max. Humidity: 30% min. to 90% max. Wind Survival: 100 knots SW Temperature: -2°C min. to 35°C max, Density: 1,025 kg/m ³ (for design purposes) Corr. wave period: 13.5 sec Wave Height: 50 ft (survival @ water depth 300 ft) 54 ft (survival @ water depth 250 ft)
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Mooring System

Mooring System & Anchors	4 sets of anchor winches; Nantong Liwei / DC-300E; Electric with a rated pull of 300 kN 4 sets of anchors; JIANGSU YANGYUAN MARINE EQUIPMENT CASTING / High holding power anchor type JYS; each weighing 3,175 kg
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Crane, Hoist And Material Handling

Cranes	One (1) TSC Deck Crane / P10 with 120 ft long boom. Main hoist capacity 50 tonne @ 8.7 m. Auxiliary hoist capacity 6.5 tonne @ 38.2 m. Diesel driven. One (1) TSC Deck Crane / P10 with 100 ft long boom. Main hoist capacity 50 tonne @ 7.6 m. Auxiliary hoist capacity 12 tonne @ 32.1 m. Diesel driven One (1) Bridge Racker TSC / BRC10-A
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Helicopter Landing Deck

Dimensions	72'-10" x 72'-10" (22.20 m x 22.20 m)
Deck Load Capacity	0.21 tonne/m ² ; 9.3 tonne per UK CAP 437
Refueling System	Not installed. System retrofit as per contract agreement
Designed For Helicopter Type	Sikorsky S61N

Auxiliary Equipment

Water Maker	2 sets of RO type HSRO-40 Aqua-Chem Inc.; 2 x 40 tonne per day
Cargo Transfer Pumps	2 x fuel oil transfer pumps; 2 x 13 m ³ /hr @ 4.5 bar

Derrick and Substructure

Derrick Dimension and Capacity	Base: 35 ft x 40 ft and Crown: 18 ft x 18 ft Maximum 1,500 kips (680 tonnes)
Racking Platform	Total simultaneous drill pipe capacity: < 5 ½" DP: 229 stands 4" DP: 105 stands 8" DP: 6 stands 9 ¼" DP: 4 stands
Automated Pipehandling	N/A - Not applicable
Drawworks	TSC / D3000; GE/5GEB28A 2x1500HP AC Motors; 1 ¾"; 638 kN. 3000 hp continuous
Rotary Table	TSC / RT495H; Maximum opening of 49 ½"; Rated capacity of 1,000 short tons
Top Drive	NOV / TDS-8SA (electric); Rated capacity of 750 short tons; Test/working pressure of (psi/psi) 11,250 / 7,500; Output power of 1,150 hp; Continuous torque rating of 63,000 ft-lb @ 94 rpm; International torque rating of 95,000 ft-lb @ 0 RPM; Maximum speed rating of 14,500 ft-lb @ 270 rpm; Brake capacity of 96,000 ft-lb; Maximum rotary speed of 270 rpm



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Power Supply Systems

Rig Power Plant	Five (5) sets of Caterpillar engines / 3516; 1603 kW; 1200 rpm Five (5) sets of AC Generator LEROY SOMER / SR4B; 1530 kW; 600 V
Compressed Air Systems	Cold Start: One (1) TMC / IHL2-77-90-105; Rated capacity of 55 m ³ /h; Working pressure 8.6 bar; Prime mover diesel driven Rig air: Two (2) Tamrotor Marine / TMC150-10 EWA SW; Rated capacity of 1,182 m ³ /h; Working pressure 9 bar; Prime mover electric driven; Continuous power 138 kW Air dryers: Two (2) Tamrotor Marine / TMC-RM1200; each with a rated capacity of 1,200 m ³ /h
Emergency Generator	Caterpillar / CAT C32; 730 kW; 1800 rpm AC Generator LEROY SOMER / SR5; 730 kW; 480V

Drillstring Equipment

Tubulars	TDS Saver Sub: 6 7/8" Full Hole (FH) Crossover Subs: OD size max/min of 7 7/8" ID size: 3.82" Top connection size: 4 1/2" Type (pin/box): Box Bottom connection size: 7 7/8" Type (pin/box): Box
Handling Tools	Semi-automatic DP slips; Blohm & Voss / PS-750/2; Max. 22" (casing) / Min. 2 3/4" (tubing) Iron Roughneck; NOV / ST-120; Range (max OD/min OD) 10" – 3 1/2"; Max. makeup torque 100,000 ft-lb; Max. breakout torque 120,000 ft-lb

Well Control/Subsea Equipment

Diverter	Make / type: GE VG / KFDJ49.5; Maximum bore: 47"; ID of insert packers: 10", 17 1/4", 22"; Working pressure: 500 psi
LP and HP BOP	Low Pressure: Cameron Double + Single; 21 1/4"; 2000 psi High Pressure: Cameron; 13 3/4"; 15,000 psi Accumulator Unit: CAD / RSM-600-B3AC; Fluid reservoir capacity of 600 gallons Accumulator Hydraulic Pumps: 2 sets of CAD/EPM-P68V078BBD1; Electric drive 50 hp; flow rate of each pump 20 gallons/minute @ operating pressure 3,000 psi
Choke and Kill Manifold	3 1/16"; 15,000 psi

Mud System/Bulk System

High Pressure Mud System	3 sets of TSC WF2000 triplex mud pumps; YJ motor; 800 kW; 600 VAC; 7,500 psi; Discharge/suction line ID: 4" (ID) & 12" (DN); Liner size: 5" to 7 1/4"
Low Pressure Mud System	3 sets of shale shakers; MI-Swaco / MD-3; 6.3 Gs Normal; 7.2 Gs capacity 1 set of Degasser; MI-Swaco / CD-1400 Vertical D-Gasser
Bulk System	Barite/Bentonite: 3 silos; each @ 68 m ³ ; Cement Silos: 2 silos; each @ 68 m ³ ; Surge Tanks for B/B: 2 tanks; each @ 2.2 m ³

Casing/Cementing Equipment

Casing Equipment	Casing equipment mobilized as per contract agreement
Cementing Equipment	Cementing equipment mobilized as per contract agreement

Instrumentation/Communication

Drilling Instrumentation	Weight Indicator: Sensor type; E551 compression Standpipe Pressure Gauges: 2 each; Max. pressure reading @ 10 kpsi Choke Manifold Pressure Gauges : 2 each; Max. pressure reading @ 15 kpsi Tachometer: Truck / Proxy Switch; Max. rpm @ 20 Torque Indicator: Hydac / Pressure Transducer; Max. torque @ 100 Nm; Top Drive Instrumentation; Pump Stroke Counters; Tong Torque Indicator; Pit Volume Totalizer; Trip Tank Indicator; Automatic Driller; Remote Choke Control Unit; Crown Clearance Indicator
Rig Communication System	Rig Telephone System - No. of stations: 81 (Explosion proof: 10) Public Address System - No. of stations: 264 (Explosion proof: 65) Drill Floor Talkback System - No. of stations: 3 Hand Held VHF Radios - Quantity: 12 Crane Communication System - SSB Transceiver GMDSS System - Quantity: 2 EPIRBs - Quantity: 1 Aircraft Radio Beacon Transmitter - Quantity: 1 Aeronautical VHF Transceiver - Quantity: 1 Watch Receiver - Quantity: 1 MF/HF DSC/Watch Receiver - Quantity: 1 NAVTEX RECEIVER - Quantity: 1 MARINE GPS NAVIGATOR - Quantity: 1 Satellite communication system: V-Sat Mobile Earth Station Inmarsat-C - Quantity: 2 Mobile Earth Station Inmarsat-F , Quantity: 1 Marine VHF Radio - Quantity: 3 Portable VHF Transceiver - Quantity: 4 SART - Quantity: 4 RADIO CONSOLE - Quantity: 1 POWER SUPPLY UNIT/UPS - Quantity: 2
Navigation Equipment	
External Communications Eq.	

Production Test Equipment

Burner Boom	Not installed. System retrofit as per contract agreement
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Workover Tools

Workover Tools	As per contract agreement
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Accommodation

Offices	5 offices; each with 4 workstations
Living Quarters	110 PAX; 6 one-bedders; 8 two-bedders; 22 four-bedders

Safety Equipment

Fire Fighting	Two (2) firewater pumps; Azcue / VM-EP80/20; each delivering 160 m ³ /hr @ 70m; Power rating 52 kW
Survival Equipment	Lifeboats: 2 units with capacity of 120 PAX/unit Liferafts: As per IMO / SOLAS FRC/MOB: As per IMO SOLAS

Pollution Prevention Equipment

Sewage Treatment	EVAC / MBR 80C; Biological FAST D4 system; Capacity in line with full crew complement (110 PAX onboard)
Garbage Treatment & Disposal	Wesco 526
Oily Water Separator	Coalescer type; JOWA / 3SEP OWS; System capacity @ 5 m ³ /h



