



Unit : Gulf Driller IV
Type: : 300 foot jack-up / Super M2
Class : ABS
Built : 2018
Rig Operator : Bluewhale Offshore
Email : marketing@bluewhaleoffshore.com



Unit Specifications	
Registered Name	Gulf Driller IV
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	2016
Construction Yard	Yantai CIMC Raffles Offshore Ltd

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 metric 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	174 m ³
Bulk Cement	174 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 154 kW and a capacity of 500 m ³ /h @ 6.5 bar One (1) general service pump (SB sea chest); Azcue / LN-VP-100-250; Capacity of 160 m ³ /h @ 3 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)

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)

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

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 NOV / BR-10-SD-S

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 18ft 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 ½" DP: 4 stands N/A - Not applicable
Automated Pipehandling	N/A - Not applicable
Drawworks	NOV / ADS-30D; NOV / CM632UUT 2 x 1500 hp AC motors; 1 ¾"; 1,603,000 lbs. 3000 hp continuous
Rotary Table	NOV / VBJ RST 49 ½"; Maximum opening of 49 ½"; Rated capacity of 1000 short tons 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
Top Drive	



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Power Supply Systems

Rig Power Plant Five (5) sets of Caterpillar engines / 3516C; 1603 kW; 1200 rpm
 Five (5) sets of AC Generator LEROY SOMER / SR4B; 1530 kW; 600 V

Compressed Air Systems Cold Start: One (1) Sperre / LL2-77-90-105; Rated capacity of 55 m³/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 m³/h; Working pressure 9 bar; Prime mover electric driven; Continuous power 151 kW
 Air dryers: Two (2) Tamrotor Marine / TMC-RM1200; each with a rated capacity of 1,200 m³/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 ¾" Full Hole (FH)
 Crossover Subs: OD size max/min of 7 ¾"
 ID size: 3.82"
 Top connection size: 4 ½"
 Type (pin/box): Box
 Bottom connection size: 7 ¾"
 Type (pin/box): Box

Handling Tools Iron Roughneck; NOV / ST-120; Range (max OD/min OD) 10" – 3 ½"; 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 ¾", 22"; Working pressure: 500 psi

LP and HP BOP Low Pressure: Cameron Double + Single; 21 ¼"; 2000 psi.
 High Pressure: Cameron; 13 ¾"; 15,000 psi

Choke and Kill Manifold 3 1/16"; 15,000 psi

Mud System/Bulk System

High Pressure Mud System 3 sets of NOV 14-P-200 triplex mud pumps; 2 sets of AC drive motors for each mud pump DM27A HL E / NOV; 7,500 psi; Discharge/suction line: 4" (ID) & 12" (DN); Liner size: 5" to 7 ¼"

Low Pressure Mud System 3 sets of shale shakers; Derrick / DP626; 7Gs @ 1000 gpm with PMD API 80 screens with (10.8 ppg mu); 1 set of Degasser: Derrick / ACD1500 Centrifugal Degasser

Bulk System Barite/Bentonite: 3 silos; each @ 58 m³;
 Cement Silos: 2 silos; each @ 58 m³;
 Surge Tanks for B/B: 2 tanks; each @ 1.5 m³

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 Gauge: 1 each; Max. pressure reading @ 10 kpsi
 Choke Manifold Pressure Gauges: 2 each; Max. pressure reading @ 15 kpsi
 Tachometer: NOV / Proxy Switch; Max. rpm @ 15
 Torque Indicator: NOV / Pressure Transducer; Max. torque @ 45,000 lbs-ft
 Top Drive Instrumentation; Tachometer; Torque Indicator; Pump Stroke Counters; Tong Torque Indicator; Pit Volume Totalizer (integrated); Trip Tank Indicator (integrated); Automatic Driller; Remote Choke Control Unit; Crown Clearance Indicator; Drilling Parameter Recorder; Choke Manifold Pressure Gauge (Casing Pressure Gauge); Standpipe Pressure Gauge

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
 Navigation Equipment 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
 External Communications Eq. 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

Production Test Equipment

Burner Boom Not installed. System retrofit as per contract agreement

Workover Tools

Workover Tools As per contract agreement

Accommodation

Offices 5 offices; each with 4 workstations

Living Quarters 120 PAX; 4 one-bedders; 10 two-bedders; 24 four-bedders

Safety Equipment

Fire Fighting Two (2) firewater pumps; Azcuc / VM-EP80/20; each delivering 160 m³/hr @ 70m; 52 kW

Survival Equipment Lifeboats: 2 units with capacity of 120 PAX/unit
 Liferafts and FRC/MOB: As per IMO / SOLAS

Pollution Prevention Equipment

Sewage Treatment EVAC / ORCA III300; Physical/Chemical type; Capacity in line with full crew complement (120 PAX onboard)

Garbage Treatment & Disposal Wesco 526

Oily Water Separator Coalescer type; JOWA / 3SEP OWS; System capacity @ 5 m³/h



