



Unit : Gulf Driller VIII
Type: : 400 foot jack-up / JU2000E
Built : 2018
Rig Operator : Bluewhale Offshore

Email : marketing@bluewhaleoffshore.com

Unit Specifications

Registered Name	Gulf Driller VIII
Rig Type	Self-Elevating, Cantilever, Independent Leg, Jack-Up MODU
Unit/Design/Shape	JU2000E Independent Cantilevered Triangular Jack-Up - Friede & Goldman
Unit Flag	Liberia
Unit Classification	ABS XA1 Self-Elevating Drilling Unit, CDS
IMO Certification	IMO registration upon contract commitment
Year of Construction	2017
Construction Yard	Yantai CIMC Raffles Offshore Ltd
Last Major Upgrade	N/A - Not applicable

Main Dimensions/Technical Description

Hull Length	231 ft (70.41 m)
Hull Width	249 ft (75.90 m)
Hull Depth	31 ft (9.45 m)
Number of legs/length	3 x 547 ft (166.73 m) - incl. spud can
Spud Can Diameter	59 ft (17.98 m)
Spud Can Height	19.5 ft (5.94 m)
Cantilever Envelope	75 ft x 30 ft (22.86 m x 9.15 m)
Maximum Hook Load	2,000 kips (907 tonnes)
Maximum Rotary Load	2,000 kips (907 tonnes)
Maximum Setback Load	950 kips (431 tonnes)

Storage Capacities

Fuel	23,307 ft ³ (660 m ³)
Mud Processing Tank	1,801 ft ³ (51 m ³)
Active Liquid Mud	26,309 ft ³ (745 m ³)
Drilling Water	55,938 ft ³ (1,584 m ³)
Potable Water	19,246 ft ³ (545 m ³)
Sack Storage	5,000 sacks
Bulk Bentonite/Barite	8,828 ft ³ (250 m ³)
Bulk Cement	8,828 ft ³ (250 m ³)

Jackup Systems

Jacking Systems	NOV-BLM / electric driven No. of pinions: 54 Maximum jacking load: 1,150 kips Jacking speed: 1.5 ft/min
Raw Water System/Ballast	3 sets of submersible pumps; S & N; each with capacity of 400 m ³ /hour @ 87 psi; 170 hp One (1) dedicated pre-load pump; S & N; with a capacity of 500 m ³ /hour @ 29 psi; 65 hp

Operational Capabilities

Maximum Water Depth	400 ft
Maximum Drilling Depth	35,000 ft

Variable Load Capacity

Variable Load Capacity	Transit VL capacity: 6,170 kips Max. combined VL capacity: 14,300 kips Max. survival VL capacity: 6,600 kips
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Environmental Limits

Environmental Limits	Air Temperature: -20°C min. to 45°C max. Humidity: 30% min. to 90% max. Wind Survival: 100 knots (51.44 m/s - one min. avg.) SW Temperature: 0°C min. to 35°C max. Density: 1,025 kg/m ³ (for design purposes) Corr. wave period: 14.1 sec Wave Height: 44 ft (survival @ water depth 400 ft)
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Mooring System

Mooring System & Anchors	4 sets of MEP 40 tonne single drum winches; 120 hp per winch 4 x Flipper Delta HHP anchors; 7,500 kg (each)
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Crane, Hoist And Material Handling

Cranes	Three MEP deck cranes; One rated at 60 tonnes @ 29 ft; Two rated at 50 tonnes @ 25 ft; All with 120 foot booms
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Helicopter Landing Deck

Dimensions	22.20 m x 22.20 m
Deck Load Capacity	42lb/ft ² (0.21 tonne/m ²); 26,455 lbs (12 tonne)
Refueling System	Wilmax; Fuel storage capacity of 1,500 US Gallons
Designed For Helicopter Type	Sikorsky S92

Auxiliary Equipment

Water Maker	2 sets of Danfoss; each with a capacity of 60 tonne per 24 hours running
Cargo Transfer Pumps	2 x fuel oil transfer pumps, 2 x 35 m ³ /hr; 5 bar

Derrick and Substructure

Derrick Dimension and Capacity	Base: 40 ft x 40 ft; Crown: 18 ft x 18 ft 170 ft clear height Maximum 2,000 kips (907 tonnes) Total simultaneous capacity - drill pipe: 5 ½" DP and 5 ½" HWDP: 361 stands 3 ½" DPDP: 90 stands 9 ¾" DC: 10 stands
Racking Platform	MHWirth Eagle Light 3.2 t HTV; 6.4 t vertical above mouse holes MHWirth Catwalk Machine 20 t MHWirth Lower Guiding Arm for pipe range OD 3 ½" to 9 ¾"
Automated Pipehandling	MHWirth pipe deck pipe handler (PDPH); lifting capacity (SWL) of 4.5 t @ 2.3 m to 22 m; and 3.5 t @ 22 m to 23.2 m
Drawworks	MHWirth GH 4500EG-AC, 3 sets of 1,150 hp GE B22 A2 AC drilling motors; Maximum line pull 2,000 kips @ 14 lines
Rotary Table	MHWirth RTSS-H hydraulic drive; Maximum opening of 49 ½"; Rated capacity of 1,000 short tons
Top Drive	MHWirth DDM-1000-AC-2M-Enhanced; 2 x 1,150 hp (electric); Rated capacity of 907 tonnes (1,000 short tons); Test/working pressure of (psi/psi) 11,250 / 7,500; Output power of 1,150 hp; Continuous torque rating of 118,000 Nm @ 0 - 130 rpm; 104,000 Nm @ 150 rpm



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Power Supply Systems

Rig Power Plant	Six (6) sets of Caterpillar CAT 3516C HD; 1603 kW; 1200 rpm Caterpillar AC generator SR4B; 1530 kW; 690V / 60Hz
Compressed Air Systems	Air compressors - Cold Start: 1 set of Ingersoll Rand (diesel drive); 0.9 m ³ /min; 125 psi Air compressors - Medium pressure (rig air): 3 sets of Ingersoll Rand (electric drive); 30 m ³ /min; 125 psi; 120 hp Air dryers: 2 sets of Ingersoll Rand; Dessicant heatless type; each with a capacity of 1,800 ft ³ /min
Emergency Generator	Caterpillar CAT C32; 1,333 hp; 1800 rpm AC Generator LEROY SOMER / SR5; 910 kW; 480V

Drillstring Equipment

Tubulars	TDS Saver Sub: 6 3/4" Full Hole (FH) Crossover Subs: OD size Max/Min of 7 3/4" ID size: 3.82" Top connection size: 4 1/2" Type (pin/box): Box Bottom connection size: 7 3/4" Type (pin/box): Box
Handling Tools	Drill pipe elevator: B&V / VES-SD-750; 3 1/2"; 750 tons Semi-Automatic DP Slips: MHWirth / PS750-2; Hydraulically operated; 2 3/4" to 22" Iron Roughneck: MHWirth hydraulic RN; 3 1/2" - 9 1/2"; Max. makeup torque of 190 kNm; Max. breakout torque of 190 kNm

Well Control/Subsea Equipment

Diverter	GE VG / KFDJ500; Maximum bore: 49 1/2"; ID of insert packers 28" or 36"; Working pressure of 500 psi
BOP	Cameron; 18 3/4"; 15,000 psi; all appropriate components H2S rated
Choke and Kill Manifold	MHWirth; 3 1/16"; 15,000 psi

Mud System/Bulk System

High Pressure Mud System	3 sets of MHWirth TPK 7 1/2" x 14" / 2200 CL-AC-RB triplex mud pumps; 3 sets of AC drive motors YJ for each mud pump; 7,500 psi; Discharge/suction line: 4 1/16" (ID) & 10" (ID); Liner size: 5" to 6 1/2"
Low Pressure Mud System	4 sets of Derrick / FLC-513 VE shale shakers; 7Gs @ 1000 gpm with PMD API 80 screens (10.8 ppg mu) One Derrick / FLC 513VE 3-20 Mud Cleaner One Derrick / ACD1500 Centrifugal Degasser
Bulk System	Four (4) Barite/Bentonite Silos; each @ 64 m3 Four (4) Cement Silos; each @ 64 m3

Casing/Cementing Equipment

Casing Equipment	One (1) Casing stabbing basket; Rated for 300 kg One (1) set of Casing Slips; B&V / PS750-2; 3 1/2" - 5 1/2" Other casing equipment mobilized as per contract agreement
Cementing Equipment	Cementing manifold: 3 1/16", 15000 psi Cementing equipment mobilized as per contract agreement

Instrumentation/Communication

Drilling Instrumentation	Drilling instrumentation and control system with controls for drawworks, topdrive, pipe racking machinery, mud pumps, hydraulic power pack, brake water cooling unit, hydraulic cat heads, etc. Local Drillers information is displayed in the drillers' cabin from the Drilling Control System
Rig Communication System	1 station of Phontech Automatic Telephone System (128 lines). EX compliant 2 stations of Phontech Public Address System. EX compliant 9 stations of Drill Floor Talkback System 6 sets of hand-held VHF radios 6 sets of hand-held UHF radios 3 sets of Crane Communication System; Motorola GM3688 5 sets of SART 3 sets of VHF-DSC radio telephone (including 5 unit of two-way portable radio telephones)
Navigation Equipment	Gyro compass ANSCHUETZ / STANDARD 22; Depth sounder FURUNO / FE-700; Magnetic compass SAURA / SR-165; Marine GPS Navigator
External Communications Eq.	2 sets of satellite communication system: Furuno / FELCOM-18 and INMARSAT C 1 set of SSB Transceiver; Furuno / FS5075; 500 W 1 set of EPIRBS McMurdo / S4 5 sets of Marine VHF Radio; Furuno / FM8900; 25w / 1w; All US & Intl Channels 1 set of Aircraft Radio Beacon Transmitter; SAC / SEC125 1 set of Aeronautical VHF Transceiver; ICOM / IC-A210 1 set of facsimile 1 set of Telex; Furuno / NX-700A 1 set of M/A GMDSS - Furuno / RC1800

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	6 offices (each with 4 workstations)
Living Quarters	140 PAX (68 two-bedders and 4 one-bedders)

Safety Equipment

Fire Fighting	Azcue firewater pumps; 2 sets; each with a capacity of 308 USG/min
Survival Equipment	Lifeboats: 3 units; Jianyin Wolong / JY-93F / JY-85FA; Capacity of 87 / 87 / 53 PAX respectively Liferafts: 6 units; Viking / 25DKF; each with capacity of 25 PAX FRC/MOB: One JianyinWolong / 6.5 m

Pollution Prevention Equipment

Sewage Treatment	One (1) EVAC unit / Orca III 200
Garbage Treatment & Disposal	One (1) Delitek / TD-500MC unit One (1) Wesco / 150 kg unit
Oily Water Separator	One (1) JOWA / 3Sep OWS unit; 10 m ³ /h



