

Unit North Dragon : Type: MW Semi Submersible Drilling Unit / GM4D : Class : DnV 2016 Built : **Rig Operator Bluewhale Offshore** :

Email

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Item	Description	E -	wissemental Limite	
Jnit Specifications			nvironmental Limits	
Registered Name Rig Type Unit/Design/Shape Unit Flag	North Dragon Column Stabilized Drilling Unit (midwater) GM4D - design by Global Maritime & CIMC Raffles Flag upon contract commitment	Environmenta	ii Liinits	
Jnit Classification/ Notations	DNV GL: +1A1 Column Stabilized Drilling Unit (N); DRILL (N); DYNPOS-AUTRO; POSMOOR-ATA;	Mooring System		
IMO Certification	HELIDK-SH (N); CRANE (N); E0; CLEAN; ICE-T; WINTERIZED BASIC IMO registration upon contract commitment	Anchor Winches & An	nchors	
Year of Construction Construction Yard	2016 Yantai CIMC Raffles Offshore Ltd			
Type of Positioning System	DP3; ATA; or anchored	Anchors not installed Marine Loading Hoses		
		ML System		
Main Dimensions/Technical De Weight (light ship)	28,445 tonne			
Displacement at Loadline	45,727 tonne (@ 21 m draft)	Cranes, Hoist And Mate	bulk; Each hose 60 m long Cranes, Hoist And Material Handling	
Draft at Loadline Hull Length Hull Width	21 meters 107 m 74 m	Cranes		
Moon Pool Transit draft Survival draft and Airgap	29.1 m x 7.4 m 10.1 m; Displacement 32,656 t 19 m; Displacement 43,826 t; Airgap 15 m			
Storage Capacities		Helicopter Landing De	ck	
Fuel	29,436 bbls (4,680 m ³)	Dimensions		
Drilling Water	10,881 bbls (1,730 m ³)	Deck Load Capacity		
Potable Water Active Liquid Mud	3,774 bbls (600 m ³) 2,937 bbls (467 m ³)	Refueling System		
Mud Processing Tank	340 bbls (54 m ³)	Designed For Helicopter T	ype	
Reserve Liquid Mud	4,032 bbls (641 m ³)	Auxiliary Equipment		
Bulk Bentonite/Barite	12,819 ft ³ (363 m ³)	Water Maker		
Bulk Cement Sack Storage Pipe Rack & Riser Storage Area	12,501 ft ³ (354 m ³) 5,500 sacks Pipe racks area: 130 m ² Riser racks area: 165 m ²	Cargo Transfer Pumps		
Propulsion/Thrusters				
Thrusters Dynamic Positioning	Six (6) Rolls-Royce / UCC405 azimuth thrusters; Each with Siemens 6,120 hp motors Kongsberg K-Pos system; Full DP/Dynpos-AUTRO; Posmoor ATA; DP 3	Derrick and Substructure Derrick/Mast	3	
Operational Capabilities				
Maximum Water Depth	3,900 ft (1,200 m)			
Maximum Drilling Depth	26,250 ft (8,000 m)	Racking Platform		
Transit Speed	6 knots			
Variable Deck Load Capacity		Maximum Setback Load		
Variable Deck Load Capacity	Transit VDL capacity: 3,000 tonnes Drilling VDL capacity:4,000 tonnes			

Survival VDL capacity: 4,000 tonnes

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nental Limits	Drilling Air gap below main deck: 13 m Maximum wave height (H _s): 8 m Maximum heave (double amplitude): 15.6 m Maximum pitch (double amplitude): 5.7 degrees Maximum roll (double amplitude): 7.3 degrees
g System	
Winches & Anchors	Four (4) NOV-BLM / MV375 double drum winches; Each @ 630 kW; Rated pull of 384 t; Stalling pull 540 t Eight (8) Bridon / DBK2 SWR 96mm anchor lines; Each @ 750 m long; DNV Offshore E-301 Anchors not installed
Loading Hoses	
em	Two (2) NOV hose reel loading station; 7 each 4" liquid hoses and 2 each 5" hoses for powder/dry bulk; Each hose 60 m long
Hoist And Material Han	dling
	Two (2) NOV / OC3500LCE lattice boom deck cranes; 80 t @ 7.8 m; Boom length 50 m One (1) NOV knuckle boom pipe handling crane; 13.3 to 24.2 t @ radius 4.3 to 26.6m One (1) NOV BOP / LMRP/XT overhead gantry crane; 2 x 60 tonne plus 1 x 12 tonne One (1) NOV / WU101 rig floor man-riding winch in derrick; 150 kg capacity One (1) NOV / PM150-65 man-riding winch in moonpool; 150 kg capacity
ter Landing Deck	
ons	Octagonal shape helideck; 91 ft diameter
ad Capacity	12.6 tonne; UK CAP 437
g System d For Helicopter Type	System by Helifuel AS; Two (2) portable tanks; 2 x 2,900 liters S61N; S92A; AS332L2
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GM4D North D

ewhale

roughnecks: Max OD/Min OD 9 ¾" - 3 ½": Max. makeup torque of 140 kNm; Max. breakout torque

of 200 kNm

Low Pressure Mud System

Five (5) Brandt / VSM 300 shale shakers



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Mud System/Bulk System Bulk System Three (3) NOV barite/bentonite silos; Capacities of 178 m³ / 92 m³ / 92 m³; 6 bar Two (2) NOV cement silos; Each with a capacity of 178 m³ 6 har Two (2) NOV surge tanks for barite/bentonite; Each with capacity of 5 m³; 5.5 bar One (1) BHI surge tank for cement; 2.5 m³; 6.5 bar All silos and tanks equipped with NOV / VC3500 load cells Casing/Cementing Equipment Casing Equipment Casing equipment mobilized as per contract agreement Cementing Equipment Baker Hughes International / Electric Seahawk AC 1600 HP; Max. working pressure 15,000 psi; Max. flowrate 4.2 bbls/min @ 5,000 psi; 90 ft³ surge tank Instrumentation/Communication Drilling Instrumentation NOV weight indicators; 2 each NOV standpipe pressure Gauge; 0 - 7,500 psi NOV choke manifold pressure gauge; 4 each; 0 -15.000 psi NOV rotary speed tachometer; 0 - 15 rpm NOV rotary torque indicator; Max. torque 60 kNm NOV motion compensator instrumentation and hook position indicator NOV pump stroke counters; One pump stroke indicator and one cumulative counter NOV tong torque indicator; 0 - 150 kNm with 1 meter arm NOV pit volume totalizer; Floats in active mud tanks; Floats in reserve mud tanks; Floats in mud processing tanks; Loss/gain indicator; Alarm (audio and visual) NOV mud flow indicator; High/low alarm (audio and visual); 2 off sensors in flowline adjacent to diverter housing NOV trip tank indicator; Chart recorder; Alarm DNH General Alarm system NOV Automatic Driller; NOV/ ROP auto Telephone System: 242 stations in total; FHF / Ex **Rig Communication System** Resist and FHF / W Resist; Alcatel / 4019 and 4039 NOR Electronic public address system (PAGA) Drillers' Talkback: Four (4) Phoneteck / 2067 and 2092 stations; Explosion proof Hand-held VHF Radios: Motorola / GP340Ex; 6 sets Environmental Instrumentation Kongsberg / HMS-200 system with recorder for Temperature; Barometric pressure; Humidity; Wind speed and direction MODU Specific Instrumentation Roll/Pitch/Heave: Kongsberg / K-pos OS + HMS with recorder Gyro Compass: Kongsberg / Navitwin IV Echo Sounder: Kongsberg / GDS 102 with recorder Weather Facsimile: Furuno / Fax-408 with recorder X-band Radar: Kongsberg; 2 each; Bandwidth 2.4 GHz S-band Radar: Kongsberg; Bandwidth 3.5 Ghz

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Radio Equipment	SSB Transceiver: Three (3) Furuno / FS-2575; 120 - 960 W; 1605 kHz to 27500 kHz; Synthesized EPIRB: Two (2) Jotron/ Tron 40S VHF Radio Telephone: Three (3) Jotron / TR-20 GMDSS; 2 W; 21 channels VHF Radio Transceiver: Three (3) Furuno / FM- 8900S; 25 W Radio Beacon Transmitter: Two (2) Jotron / AIS- SART; 1W Aeronautical VHF Transceiver: Two (2) ICOM / IC- A210; 8W; 118 MHz - 137 MHz; Synthesized Watch Receiver: Furuno / NX7001 Satellite Communication System: Furuno / Felcom- 500; Inmarsat C; Facsimile link; Inmarsat Fleetbroadband; Telex link; Other capabilities VSAT system
Production Test Equipment	
Burner Boom	Two (2) Dalian TSC horizontal burner booms; Each 100 ft long; Max. wind speed (operation) 36 m/s; Burner platform size: 3,1 m x 3,1 m
Workover Tools	
Workover Tools	As per contract agreement
Accommodation	
Offices Living Quarters	Company Rep office @ A deck AFT Contractor Rep @ drill floor (with unrestricted view of drill floor) 130 PAX capacity; All single occupancy cabins
Safety Equipment	
Gas/Fire/Smoke Detection	H ₂ S monitoring system: Kongsberg / K-safe
	Combustible gas monitoring system: Kongsberg / safe Two (2) portable H ₂ S detectors: Honeywell / GasAlert Quattro Two (2) explosimeters: Honeywell / GasAlert Quattro
Fire Fighting	Two (2) firewater pumps; Allweiler / RVP250M;
Survival Equipment	Single stage vertical centrifugal; 2 x 430 m ³ /h Four (4) Norsafe / GES50 MKIII Free Fall lifeboats; Each with 70 PAX capacity Eight (8) Viking / 35 DK-RS liferafts; Each with a capacity of 35 PAX Norsafe / Mako 655-R002 FRC / MOB; Water-jet propulsion
Pollution Prevention Equipme	nt
Sewage Treatment	EVAC / MBR vacuum system; In compliance with IMO MEPC159(55) and US Coast Guard regulation
Garbage Compaction/Disposal	Delitek / DT-200 system. Additionally, deck containers with compactor function are planned for deployment in certain regions
Oily Water Separator	JOWA / 3Sep OWS; 5 m ³ /h

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