

Noble Tom Madden



Drillship

General description

The Noble Tom Madden is a robust drill ship with two well centers, designed for reliable drilling and well abandonment operations in deepwater and ultra-deepwater depths. Its integrated hull design supports efficient well construction, intervention, and decommissioning activities with a minimal environmental footprint. The Noble Tom Madden has a proven track record of reducing well construction time by a relentless focus on efficiency. It is outfitted with a dual BOP system, deep water heave compensated crane, dual mud systems and an integrated MPD system.

General specification

Design	Gusto P10000
Year built/upgraded	2014
Year entered service	2014
Builder	HHI
Flag	Liberia
Classification	DNV, 1A1 Ship-Shaped Drilling Unit, BIS, DYNPOS(AUTRO), E0, DRILL, CRANE, HELDK
MODU Code	2009
Overall Length	752 ft
Draft	36ft (operating), 36 ft (transit)
Depth	60 ft
Displacement	70,000 t
Variable deck load	20,000 t
Transit speed	11 knots
Water depth	12,000 ft
Drilling depth	40,000 ft
Accommodation	210
Hook load	2.5MM lbs (main), 1.5MM lbs (aux)
Moonpool	73 ft x 32 ft (effective), 115 ft x 32 ft (main deck)

Applications

NORMS	Real Time Monitoring	Ops Performance Tool	H56	OnTheGo
			RigFlow/Rig Pulse	

These specifications are intended for general reference purposes only. Actual equipment may vary upon the contract situation and customer needs.

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Storage capacity

Liquid mud	14,586 bbls
Base oil	5,031 bbls
Brine	5,660 bbls
Bulk cement	15,891 cuft
Bulk bentonite	7,981 cuft
Bulk barite	7,981 cuft
Sacks	10,000
Fuel	44,544 bbls
Drill water	21,070 bbls
Potable water	2,522 bbls

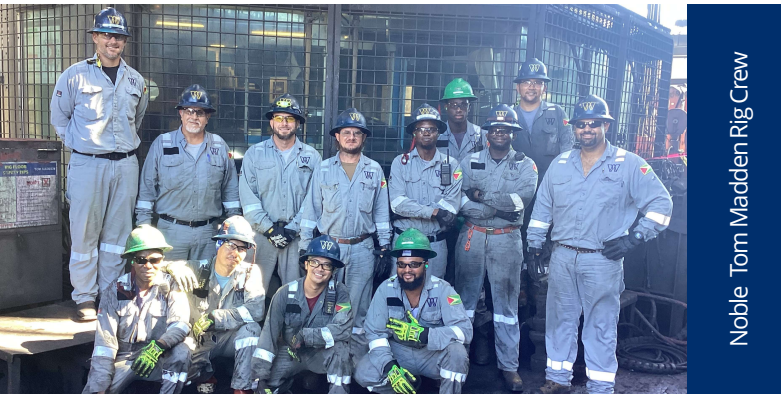
Drilling equipment

Derrick	NOV DDBN; 80 ft x 60 ft x 210 ft; 1,250 st main & 750 st aux
Drawworks	1 x AHD-1250; 6,700 kW (main) 1 x SSGD-750, 3,355 kW (aux)
Motion Compensator	1x AHC (main), 1x CMC (main)
Rotary Table	1 x NOV RST 75 1/2" hydraulic (main) 1 x NOV RST 60 1/2" hydraulic (aux)
Top Drive	1 x NOV TDX-1250; 105,000 ft-lbs @ 130 RPM fts (main)
Tubular Handling	2 x NOV HydraRacker-model HR-IV-ER
Fingerboard capacity	DP 375 at 141 ft, casing 84 at 141ft, HWPDP 20 at 135 ft, BHA 30 at 120 ft
Mud Pumps	4 x NOV 14-P-220, 2,200hp, 7,500 psi
Solids Control System	6 x NOV Brandt VMS-MS Shakers
Iron Roughneck	2 x NOV ST-160 (main, aux), 140,000 lbsft m/u

Sub sea equipment

Diverter	NOV-Shaffer-CSO; 75.5" x 1,000 psi w/ 21.5" packer element working pressure
Dual BOP	Yes
BOP stack	2 x NOV Shaffer NXT; 6 ram; 18-3/4" x 15k psi, Vetco SHD H-4 15k wellhead connector.
LMRP	2 x NOV Shaffer SL 18-3/4" x 10,000 psi annulars
C&K manifold	WOM 15K
Marine riser	NOV-Shaffer-FT-H; 75 ft length, 10,000 ft stored below deck
Tensioners	14 x NOV SWRT-250-50; 250 kips/ea; Wire line travel of 50ft
XT Carts	2 x 264 kips Xmas storage Tree Trolley, 1 x 882 kips Xmas Tree trolley to move Xmas trees well center w/capacity to hang off casing

Noble Tom Madden



Noble Tom Madden Rig Crew

Power generation

Main power	6 x 8,000 kW, Himsen at 720 rpm
Electrical power	6 x 7,600 kW, 11kV, generators
Emergency power	1 x 1,500 kW STX, 1,500 kW, 480V, generator

Cranes

Main cranes	3 x 100 t NOV Kunkeboom
Subsea cranes	1 x 165 t AHC, NOV 10,000ft WD capacity
X-Mas Tree / BOP	1 x 250 t (2x) NOV BOP Gantry Crane
Other	N/A

Other Systems

MPD	2 x 3" and 2 x 6" chokes SLB RCD, Control System.
Burner booms	N/A
Dual Well Centers	Yes
Automation	Cyberbase, Softspeed, PIMS
Red Zone Management	Salunda Crewhawk, camera with equipment control. (planned 2027)
On the Go	Yes
H56 Enabled	Rig Flow, Rig Pulse
Data Infrastructure	NOV Datavault
Other	N/A

Real Time Data Provision

Drilling	VMS	BOP	MPD

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Unique Capabilities and Enhancements

Drilling Efficiency	PIMS – pipe information management system.
MPD	Integrated MPD system, owned and operated by Noble

Station keeping / Propulsion system

Mooring system	N/A
Mooring winches	N/A
Thrusters	6 x 5,000 kW, UUC 455 Rolls Ryce, azimuth thrusters with fixed pitch variable speed propellers
DP system	Kongsberg DP3 K-Pos DP-22 (main) & DP12 (backup)
Position reference systems	2 x HPR / 3 x DGPS

