

Noble Discoverer



Semisubmersible

General description

The Noble Discoverer is a robust, four legged, semisubmersible designed for reliable drilling, well intervention and well abandonment operations from shallow to ultra-deep water depths. Its upgraded hull, enhanced stability, and increased fluid storage capacity support efficient well construction, intervention, and decommissioning activities. The Noble Discoverer's moored station keeping system utilizing mooring lines and thrusters provide dependable performance in challenging offshore conditions with minimal environmental footprint.

General description

Design	DSS-21 Column Stabilized
Year built/upgraded	2009
Year entered service	2009
Builder	Keppel Fels, Singapore
Flag	Mashall Islands
Classification	ABS, Column Stabilized Drilling Unit, A1, AMS, ACCU DPS-2 Additional notations : CRC, PMP, ©
MODU Code	1995
Overall Length	384 ft
Draft	67.3 ft (operating), 31.8 ft (transit)
Depth	62.3 ft
Displacement	53,197 mt
Variable deck load	7,000 mt
Transit speed	4 knots
Water depth	10,000 ft (max), 310 ft (min)
Drilling depth	40,000 ft
Accommodation	180
Hook load	2MM lbs (main), 1.5MM lbs (aux)
Moonpool	141 ft x 29.5 ft

Applications

NORMS	Real Time Monitoring	Ops Performance Tool	H56
			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	18,870 bbls
Base oil	4,840 bbls
Brine	4,840 bbls
Bulk cement	24,014 cuft
Bulk bentonite	24,014 cuft
Bulk barite	24,014 cuft
Sacks	5,000
Fuel	28,511 bbls
Drill water	13,233 bbls
Potable water	5,220 bbls

Drilling equipment

Derrick	210 ft x 72 ft x 39 ft, 2,500 kips main, 1,500 kips aux (not simultaneously)
Drawworks	Wirth / GH 6000 EG-AC, 4,600 hp main, Wirth / GH 4500 EG-AC, 4,200 hp aux
Motion Compensator	CMC (main, aux), AHC (main, aux)
Rotary Table	NOV RST-605, 60 1/2" main, NOV RST-605 60 1/2" aux
Top Drive	1 x NOV HPS 1000, 90,800 ftlbs @ 130 rpm (main) 1 x NOV HPS 750, 64,175 ftlbs @ 94 rpm (aux)
Fingerboard capacity	187 stds 6 5/8" DP, 168 stds 5 7/8" DP, 114 stds 9 3/4" DC, 288 stds (16", 13 3/8", 13 5/8", 14", 7" or 3.5" CSG).
Tubular Handling	2 x NOV Hydraracker
Mud Pumps	4 x Wirth TPK 7 1/2" x 14" , 2,200HP, 7,500 psi
Solids Control System	8 x MI Swaco BEM 650
Iron Roughneck	2 x NOV Hydratong, 103,000 ftlbs m/u, 147,000 ftlbs b/o

Sub sea equipment

Diverter	1 x Hydrill FS, 21", 500 psi
Dual BOP	Yes
BOP stack	1 x GE Hydrill with 6 ram cavities 18 3/4" 15K, GE Vetco SHD H4 18 3/4" 15k wellhead Connector
LMRP	2 x Hydrill GX 18-10, BTM FLG 18 3/4", 10K
C&K manifold	WOM 15K psi
Marine riser	Aker Kvaerner Subsea, 21" OD, CLIP, 75 ft joints, 3,750 ft
Tensioners	6 x NOV N-Line Tensioners 600 kips each with 50 ft stroke
XT Carts	Yes

Noble Discoverer



Noble Discoverer Rig Crew

Cranes

Main cranes	1 x 143t Favelle Favco, 1 x NOV Knuckleboom pipe handling crane
Subsea cranes	1 x 165t NOV AHC Subsea Knuckleboom Crane
X-Mas Tree / BOP	2 x 50t Xmas Tree Overhead Crane
Other	N/A

Power generation

Main power	8 x 4,960 kW Wartsila 16V26 at 900 rpm
Electrical power	8 x 4,840 kW 11kV Generators
Emergency power	1 x 1,500 kW 690V CAT 3516B

Other Systems

MPD	Safekick with Weatherford RCD
Flare booms	No
Dual Well Centers	Yes
Automation	Cyberbase, NOVOS
Red Zone Management	NOV red zone manager, camera with equipment control
On the Go	No
H56 Enabled	Rig Flow, Rig Pulse
Data Infrastructure	Real time monitoring
Other	N/A

Real Time Data Provision

Drilling	VMS	BOP

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Unique Capabilities and Enhancements

Water depth	The combination of DP and moorings provides the rig with the unique capability to operate from shallow waters (298 ft) to ultra-deep waters (9,625 ft)
MPD	The MPD system will enhance the drilling efficiency of the rig significantly.

Station keeping / Propulsion system

Mooring system	8 x mooring lines
Mooring winches	4 x 273t Brohl / CAMW - 35
Thrusters	8 x 4,000 kW Wartsila LIPS FS3500-671/NU
DP system	Kongsberg SDP 32, DP2+
Position reference systems	2 x HPR / 4 x DGPS

