

## NAGA 4

NAGA 4 is a three-legged 400 ft independent leg jack-up drilling rig designed and built by Keppel FELS in Singapore. The KFELS B Class jack-up rig has been built to the standards of IMO MODU Code (1989 with 1991 amendments) and been delivered in April 2013.

NAGA 4 meets the demands of the offshore drilling industry by providing the latest technology in the systems and operations of the rig, bigger deck space, 150 maximum POB, capable to drill at 400 ft water depth and deep drilling of 30,000 ft depth.

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GENERAL	
Name	VELESTO NAGA 4
Design	Keppel FELS B Class Design
Delivery	March 2013
Construction Yard	Keppel FELS Yard, Singapore
Jack Up Type	Independent Leg Jack Up Drilling Rig
Flag	Malaysia
Classification	ABS
Class Notations	A1 Self-Elevating Drilling Unit

MAIN DIMENSIONS / TECHNICAL	
Length and Breadth	234 ft x 208 ft
Depth	25 ft
Draft	16 ft
Leg Length	517 ft
Leg Length (under hull)	460 ft
Leg Spacing	Transverse: 142 ft Longitudinal: 129 ft
Spud Can Diameter	47.20 ft
Bearing Pressure	9.84 kips/ft <sup>2</sup>
Design Water Depth	400 ft
Minimum Water Depth	20 ft *Subject to SSA
Drilling Depth	30,000 ft
Variable Load	Afloat: 4,500 kips Elevated: 7,500 kips
Drilling Envelope	70 ft x 30 ft
Helideck	Capacity: 12.8 MT
Helideck Compliance	CAP 437
Refueling System	2 x Wilmax 750 gallon
Accommodation	150 POB

DRILLING EQUIPMENT	
Derrick	Lee C Moore 36ft x 36 ft x 160 ft
Hookload	1,500 kips
Drawworks	NOV ADS-10T, 3,200 HP
Top drive	NOV TDS-8SA Rated Capacity: 680 MT
Racking Capacity	30,000 ft
Pipe Handling	Forum 16K- OAC
Iron Roughneck	Primary: NOV AR 3200 Secondary: NOV ST 120
Rotary Table	NOV RST 495, 49-1/2"
Driller's Instrumentation	NOV Amphion System

TUBULARS	
Drill Pipe	5-1/2" S-135 (21.9 ppf) 4" S135 (16.38 ppf)

WELL CONTROL	
BOP	18-3/4" Cameron TL 15,000 psi WP
BOP Annular	18-3/4" Cameron DL 10,000 psi WP
Diverter	Drill-Quip 49-1/2"
Choke & Kill Manifold	3-1/16" ID 15,000 psi
BOP Hoist	Ingersoll Rand Lifting Capacity: 136 MT
Conductor Tensioner	ICON T230A 230 MT

LIFTING EQUIPMENT	
Deck Crane	3x Favelle Favco 7.5/10k
Location	1 x Port Aft, 1 x Port Forward, 1 x Starboard
Main Hoist Capacity	Up to 45.4 T at 12.2 m Up to 11.0 T at 36.6 m
Fly Hoist Capacity	Up to 10.0 T at 35.6 m Up to 9.8 T at 38.6 m

POWER PLANT	
Main Engines	5 x Caterpillar 3516C-HD, 2,150 hp
Main Generators	5 x Baylor @ 1,720 ekW
Emergency Engine	Caterpillar 3508B-DITA
Emergency Generator	Stamford @1,051 ekW

MUD SYSTEM	
Mud Pumps	3 x LEWCO W-2215, 2,200 hp Triplex Type, 7,500 WP
Shale Shakers	5 x NOV Brandt VSM 300
Desander	1 x NOV Brandt Integrated with VSM 300
Desilter	1 x NOV Brandt Integrated with VSM 300
Degasser	2 x NOV Brandt DG-10
Mud/Gas Separator	Technic Offshore 177 Psi WP, 10" ID

STORAGE CAPACITIES	
Fuel	3,265 bbl
Potable Water	2,052 bbl
Liquid Mud	2,987 bbl
Brine (Independent)	1,176 bbl
Mud / Brine Tank	1,036 bbl (interchangeable tank mud/brine)
Barite/Bentonite Silos	6,000 ft <sup>3</sup>
Cement Silos	5,100 ft <sup>3</sup>
Sack Storage	5,000 sacks
Base Oil	1,532 bbl
Preload (Independent)	46,900.7 bbl
Drill Water (Independent)	3,825 bbl
Preload / Drill Water Tank	14,959.2 bbl (interchangeable tank drill / preload)

NOTE: Specifications, dimension and capacities are indicative and subject to change without notice