

## NAGA 8

NAGA 8 is a three-legged 400ft 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 September 2015.

NAGA 8 meets the demands of the offshore drilling industry by providing the latest technology in rig systems and operations, 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 8                       |
| Design            | Keppel FELS B Class Design           |
| Delivery          | September 2015                       |
| 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                       | 16.5 ft                                    |
| Leg Length                  | 517 ft                                     |
| Leg Length (under hull)     | 460 ft                                     |
| Leg Spacing                 | Transverse: 142ft<br>Longitudinal: 129ft   |
| Spud Can Diameter           | 53 ft                                      |
| Bearing Pressure            | 8.43 kips/ft <sup>2</sup>                  |
| Design Water Depth          | 400 ft                                     |
| Minimum Water Depth         | 22 ft <i>*Subject to site specific</i>     |
| Drilling Depth              | 30,000 ft                                  |
| Variable Load               | Afloat: 4,000 kips<br>Elevated: 7,199 kips |
| Drilling Envelope           | 70 ft x 30 ft                              |
| Helideck                    | Capacity: 12.6 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<br>Rated Capacity: 680 MT         |
| Rated Capacity            | 750 MT  |
| Racking Capacity          | 30,000 ft                                     |
| Pipe Handling             | Forum 16K- OAC                                |
| Iron Roughneck            | Primary: NOV AR 3200<br>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 (24.7 ppf)<br>4" S-135 (15.5 ppf) |

| WELL CONTROL           |  |
|------------------------|--|
| BOP                    | 18-3/4" NOV NXT-M 15,000 psi WP                      |
| BOP Annular            | 18-3/4" NOB SBOP BIG BOY<br>10,000 psi WP            |
| Diverter               | Vetco Gray KFDJ-500 49-1/2"                          |
| Choke & Kill Manifold  | 3-1/16" ID 15,000 psi                                |
| BOP Hoist              | Ingersoll Rand Herculink<br>Lifting Capacity: 150 MT |
| Conductor Tensioner    | ICON T230 225 MT                                     |
| BOP Top Tensioner Unit | ICON P100A 210bar                                    |

| LIFTING EQUIPMENT   |   |
|---------------------|---|
| Deck Crane          | 3x Favelle Favco 7.5/10k                          |
| Location            | 1 x Port Aft, 1 x Port Forward,<br>1 x Starboard  |
| Main Hoist Capacity | Up to 45.4 T at 14.0 m<br>Up to 9.3 T at 41.1 m   |
| Fly Hoist Capacity  | Up to 10.0 T at 40.1 m<br>Up to 9.0 T at 43.1 m   |
| Location            | Cantilever Starboard and Port side<br>cellar deck |
| Main Hoist Capacity | Up to 6.8 T at 10 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 @1,052 ekW                |

| MUD SYSTEM        |  |
|-------------------|--|
| Mud Pumps         | 3 x NOV 14-P-220, 2,200 hp<br>Triplex Type, 7,500 psi WP |
| Shale Shakers     | 4 Derrick DP 626 + 1 VSM 300                             |
| Desander          | 1 x NOV Brandt Integrated with VSM<br>300                |
| Desilter          | 1 x NOV Brandt Integrated with VSM<br>300                |
| Degasser          | 2 x NOV Brandt DG-10                                     |
| Mud/Gas Separator | Technic Offshore 177 Psi WP, 10" ID                      |

| STORAGE CAPACITIES         |  |
|----------------------------|--|
| Fuel                       | 2,732.9 bbl  |
| Potable Water              | 2,052.7 bbl  |
| Liquid Mud                 | 4,624.8 bbl  |
| Brine                      | 1,014 bbl  |
| Barite/Bentonite Silos     | 6,000 ft <sup>3</sup>                                  |
| Cement Silos               | 5,100 ft <sup>3</sup>                                  |
| Sack Storage               | 5,000 sacks  |
| Base Oil                   | 1,273 bbl  |
| Preload (Independent)      | 48,309.4 bbl   |
| Drill Water (Independent)  | 3,835.5 bbl  |
| Preload / Drill Water Tank | 18,871.9 bbl<br>(interchangeable tank drill / preload) |

| OFFLINE SYSTEM   |  |
|--|--|
| Work Offline (WO) (1) NOV-ST120 Iron Roughneck                                       |  |
| OAC (Offline Activity Crane) Forum 8 sT derrick mounted for<br>offline pipe handling |  |

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