



DYNAMIC DRILLING PTE LTD

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DYNAMIC VISION

The Dynamic Vision is a Keppel FELS B Class self elevating cantilever jack up rig, delivered in 2013. The rig is capable of operating in water depths up to 350 feet and drilling to depths of 30,000 feet. The drilling unit has a 70 ft x 30 ft (stbd/port) cantilever and 1,500,000 lbs hook load capacity and is also equipped with a 15,000 psi main well control system, and 3 x 2200HP mud pumps and offers accommodation for up to 120 persons. Rig management system is certified to **ISO 9001:2008, ISO 14001:2004 & OHSAS 18001:2007** standards

GENERAL INFORMATION

Design : Keppel FELS B-Class
Builder : Keppel FELS, Singapore
Year Built : 2013
Flag : Singapore
Classification : ABS
Helideck : Designed for Sikorsky S61N.
(Diameter - 73ft). CAP 437
Accommodation : 120

MAIN DIMENSIONS

Length : 234 ft
Breadth : 208 ft
Depth : 25 ft
Leg Length : 491 ft
Leg Below Hull : 434 ft
Leg Spacing : Transverse 142 ft / Longitudinal 129 ft
Cantilever/Envelope : 70 ft x 30 ft (15 ft Stbd/Port)
Spud Cans : 53 ft

STORAGE CAPACITIES / WATER TREATMENT

Variable Deck Load : 5,900 kips
Cantilever & Drilling : 1,500 kips
Combined Load
Liquid Mud : 3,887 bbls
Barite/Bentonite : 6,000 cu. ft.
Cement : 5,100 cu. ft.
Sacks : 5,000 sacks
Drill water : 22,595 bbls
Potable Water : 2,000 bbls
Brine Storage : 994 bbls
Base Oil Capacity : 961 bbls
Fuel Oil : 2,700 bbls

MACHINERY / POWER

Main Power : 5 x Caterpillar 3516C HD , Radiator Cooled, 1,855 HP each
Total Power : 5 x 1,505KW = 7,525 KW
Emergency Power : 1 x Caterpillar 680KW

HOISTING EQUIPMENT

Deck Crane : 3 x Favelle Favco 7.5 / 10K; 50 ST @ 40 ft radius.

Offline Activities: Offline stand building with Forum OAC crane and offline cementing

OPERATING PARAMETERS

Water Depth : 350 ft
Min Water Depth : 30 ft (Spud cans flush with hull and can work in lower water depths with specific location/area bathymetry and metocean condition assessment)
Max. Drilling Depth : 30,000 ft

DRAFT AND DISPLACEMENT

Transit Draft : 16 ft

JACKING & SKIDDING SYSTEM

Make / Type: OTD / Electrical Rack and Pinion

Speed: 1.5 ft/min.

MOORING

Winches : 4 x BHROLOWS 300; 32 HP each
Anchors : 4 x 5 tons

DRILLING EQUIPMENT

Derrick : Wool slayer 160 ft x 32 ft x 35 ft
Hook load : 1,500,000 lbs
Drawworks : NOV ADS10T, 3,000 HP
Racking : Wool's layer 308 stands of 5½ or 5¾" Drill Pipes, 10 stands of 6½" or 8" & 7 stands of 9½" Drill Collar
Top Drive : NOV – TDS 8SA, 750 st; 63,000 ft-lbs cont. torq.; 94,000 ft-lbs intermittent; Output power 1,150 hp; 7,500 psi WP
Pipe Handling : NOV.PH-100 (1,000,000 lbs & 750 Stons)
Iron Roughneck : NOV ST-80C; Max. makeup torque 60,000 ft-lbs; Max. breakout torque 80,000 ft-lbs
Rotary : NOV D-495, 49½"
Travelling : NOV / 768; 750 ST
Mud Pumps : 3 x NOV 14-P-220; 2200 HP each; 7,500 psi WP
Shale Shaker : 4 x NOV Brandt VSM 300
Pressure Rating : 7,500 psi

WELL CONTROL SYSTEMS

BOP Main Stack : 2 x Cameron Double 13½" x 15,000 psi; H2S Trim
Annular : 21¼" x 2,000 psi & 13½" x 10,000 psi
BOP Handling : Vickers BOP & Diverter Hydraulic skidding system; 2 x 50T air hoist

BOP Control System Accumulator
Unit : Cameron 3,000 psi, 30 Nos . x 15 gal. bottles
Diverter : 29½", 500 psi
TV Camera Sys : On Monkey board, Rig Floor, Cellar Deck STBD, 3 x Accommodation Rooftop
Choke and Kill : Cameron 3-1/16" x 15,000 psi
2 x hydraulic chokes + 2 x manual