



Lifecycle Services for the Oil & Gas Industry

Asset

Topaz Driller 2009 Baker Marine
Pacific Class 375 Jackup Rig

Owner

Vantage Drilling

Location

Jurong Shipyard, Singapore

Duration

4 months

K2's team

Project Management

Structural Engineers

Design Engineers

Draftsmen

Rope Access Qualified Riggers

Rope Access Qualified Welders

Derrick Global Survey and Hook Load Upgrade: Singapore

Vantage Drilling's new jackup rig, the Topaz driller, required a derrick upgrade to increase the hook load capacity from 1.5m lbs to 1.8m lbs. Vantage employed K2 to carry out the associated design, engineering, fabrication and installation. K2 expanded out engineering and drafting departments to meet the increased scale of the project

Project Scope

To install beamsraces and brackets to increase hook load capacity by 300,00 lbs and to design, engineer and fabricate additional components as required.

Challenges

- A safe and timely installation required the highest efficiency in planning and global communication
- Limited access to the rig put limitations on the access to the derrick to carry out the survey
- The new drilling parameters of the rig left a tight deadline for the upgrade. Delays in the delivery time from suppliers meant K2's window was shrunk further
- Running day & night shifts placed extra responsibility on K2 project management and HSE to ensure that personnel were operating safely and efficiently

K2 Approach

Rope Access qualified welders enabled hotwork to be carried out quickly and safely. A dedicated safety manager ensured K2's customary dedication to safety was carried out on-site. There was close cooperation with Vantage to ensure K2's engineering conformed to client stipulations and those of the certifying authority, ABS.

K2 Comments

"Derrick upgrade projects are a growth sector for K2. Our global reach and newly enlarged engineering department allow us to hit the ground running." David Griffin, K2 Director

Client Feedback

"By all accounts, an excellent job and done on time."