

# NOBLE VALIANT TURNDOWN SHEAVES AND CRANE BOOM RAMS

Noble Drilling approached Joulon with a request for a Irata Rope Access rig-building team to undertake the following tasks onboard the Noble Drillship "Valiant"

- Crown Assembly Removal
- Removal and re-installation of 16 Turndown Sheave
- NOV knuckle Boom Crane Ram change out

## CHALLENGES

- Completing the tasks within a specific time slot to meet client drilling program
- Completing complex rigging operations in very congested areas of the asset

## WORK-SCOPE 2 CROWN REMOVAL

- Create Lift Plans
- Install certified rigging equipment to undertake the workscope activities
- De-reeve of Drill Line and Travelling Block Removal
- Fast Line & Dead Line Removal
- Crown Block Assembly removal
- Assist Rig Crew with Sheave Change-out
- Re-Installation of Crown Cluster Assembly, Fast Line and Deadline
- Assist Drill Crew with Re-Installation of Travelling Block and Re-reeve drill line
- Carry out Derrick DROPS sweep post installation



## SERVICE OFFERED

- ✓ Creation of Lift Plans
- ✓ Creation of Rope Access Method Statement & Risk Assessment
- ✓ Preparation of Detailed Workpacks
- ✓ Ongoing Project Management
- ✓ Supply of Qualified Irata Rope Access Rig-Builders
- ✓ Removal of Drilling Equipment and Crown Assembly
- ✓ Removal of 16 x Turndown Sheaves for Bearing Inspection
- ✓ Installation of Turn-down sheaves
- ✓ Change out of NOV KBC Rams



# THE PROJECT IN NUMBERS

2,976

No of Man  
Hours

0

LTI's

248

OOS Days

## WORK-SCOPE 2 TURN-DOWN SHEAVES

- Create Lift Plans
- Install Certified Rigging Equipment to undertake the work-scope activities
- Complete the removal of any clashes adjacent to the Sheave assembly
- Removal of the turndown Sheave Fixings & Pin
- Cross-haul & Lower Sheave to a safe lay down area
- Remove Bearing Plate, Clean & Inspect Bearings
- Reinstall Sheave into Sheave Housing
- Reinstall Sheave Pin into Sheave Bore and Housing Bore by means of Jacking
- Carry out DROPS sweep post installation

## WORK-SCOPE 2 KBC CHANGE OUT

- Create Lift Plans & Rope Access Method Statements
- Install certified rigging equipment to undertake the work-scope activities
- Removal of NOV Knuckle Boom Crane Rams
- Reinstatement of NOV Knuckle Boom Crane Rams
- Carry out DROPS sweep post installation

## CUSTOMER QUOTES

**Shane Grant**  
(Noble Valiant Assistant Rig Manager)

*"Please pass our thanks to all involved with the MRT Turn-down sheave bearing replacements. It's very much appreciated the work they have all done & most of all, they did it Safely"*



## SOLUTION PROVIDED

- Timely execution of all scopes to suit client schedule
- The above mitigated the requirement for the client to hire a Heavy Lift Vessel.
- A safe and cost-efficient conclusion to the projects

## BEST PRACTICE

- Use of Qualified IRATA Rope Access OPITO & NVR Riggers
- Joulon historical Experience
- Using Processes and Knowledge to create both time and cost efficiencies



**Lars Brandt Eriksen**  
(Noble Valiant Assistant Project Superintendent)

*"The team performed at a very high level of competency and professionalism. There was no harm to the personnel such as pinched fingers and no drops which is very important. I did not hear any complaints from the team, and they were always smiling and very polite. They stayed focused at all times and did never slow down even though the job was challenging."*