

CASE STUDY

TUR

OFFSHORE



OFFSHORE, MALAYSIA

BESPOKE CENTRALIZATION SOLUTION FOR OPERATOR IN MALAYSIA WITH MYGEO

Region: Asia Pacific

Country: Malaysia

THE CHALLENGE

A Malaysian operator required a custom centralizer solution for a challenging well application where no standard product was suitable. With the support of local distributor and partner Mygeo, Centek delivered a fully engineered solution through a rapid and integrated approach. The application involved running inside an 8.681" casing ID and into a 9.5" open hole, with inclinations up to 74°. The well required effective centralization while maintaining positive hookload throughout the operation. Within days of the initial engagement, FEA simulations for the new 0700-0912TUR were already in progress, and a provisional specification was issued within three days, enabling fast decision-making and early project alignment.

The challenge was not only technical, but also highly time-critical. The project needed to move from concept to deployment within weeks while ensuring reliable downhole performance. Any delay or uncertainty could have impacted the operation, making speed, accuracy, and confidence critical to success.

THE SOLUTION

With the support of a local distributor and partner, Centek delivered a fully engineered solution through a fast and integrated approach. Within days of the initial engagement, FEA simulations for the new 0700-0912TUR were already in progress, and a provisional specification was issued within three days, enabling quick alignment and decision-making.

The final design used one 0700-0912TUR per joint together with 0700-0812S centralizers to improve standoff and running performance in both cased hole and open hole sections.

Performance modelling confirmed the design was suitable for the well conditions. The combination of TUR and S2 centralizers provided reliable performance during the transition from cased hole to open hole, while addressing clearance limitations and wellbore geometry challenges.



TUR UNDER-REAM CENTRALIZER

- Proven tool for under-reamed sections
- Dramatically reduced initial insertion forces into previous casing
- Reduces restart force on RIH
- Reduced running force and drag, saves rig time on RIH
- Non-welded smooth bow profile overall
- Integral bow design for increased strength and performance
- Zero weak points
- Minimum rotational torque losses
- Minimize stall out effect
- Enhanced rotation due to optimized centralization

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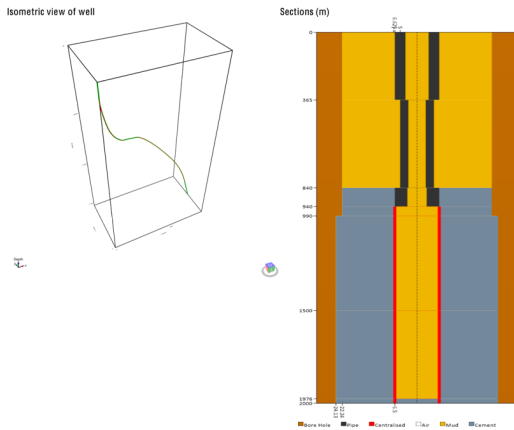
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THE RESULT

From initial request to deployment, the entire process was completed in under seven weeks, enabling the customer to stay on schedule without compromising performance. The casing string was successfully run in hole, demonstrating reliable performance in challenging conditions, including high inclination and mixed cased hole/open hole sections.

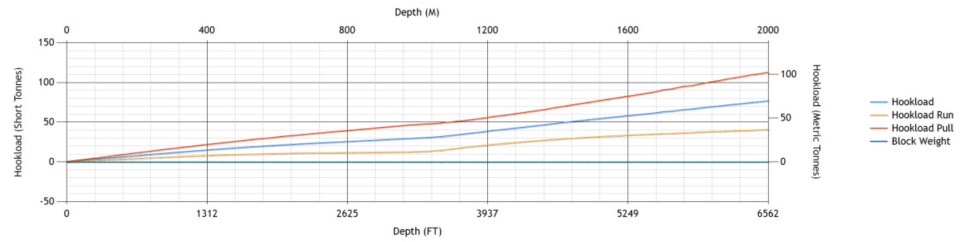
The selected configuration — featuring 0700-0912TUR centralizers at one per joint in combination with 0700-0812S — delivered the required standoff and running characteristics, supporting effective cement placement and overall well integrity.

The speed of delivery, combined with proven downhole performance, resulted in immediate customer confidence and a repeat order shortly after installation. This project highlights the value of partners who can respond quickly, reduce operational risk, and deliver a fit-for-purpose solution exactly when it's needed.

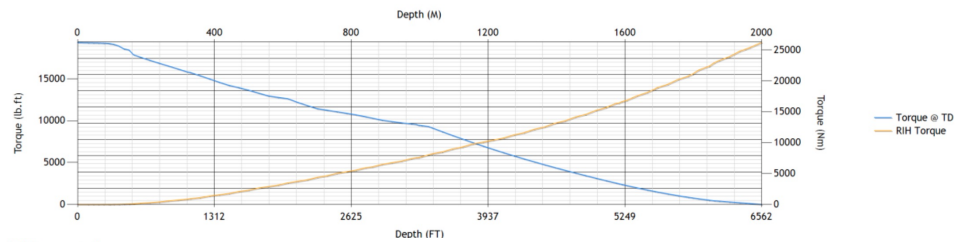


OUTPUTS FROM PROPRIETARY SIMULATIONS

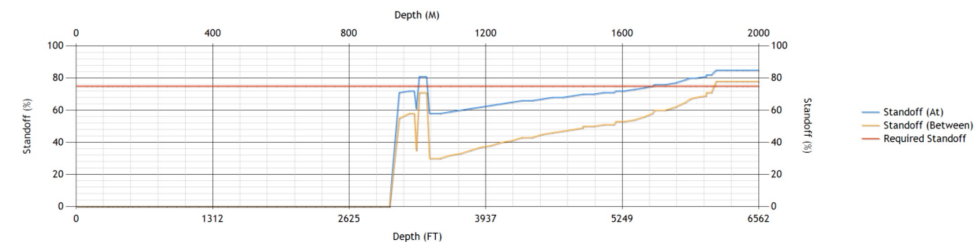
Depth vs. Hookload



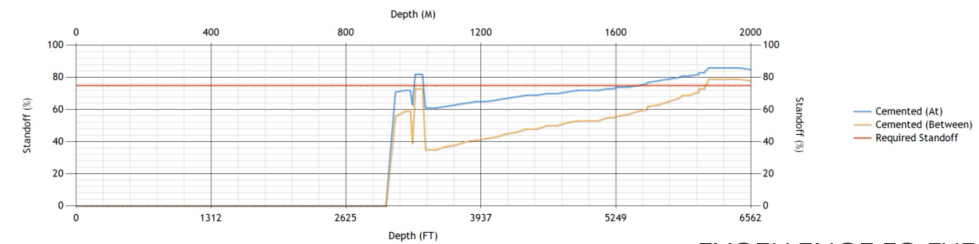
Dynamically Accumulated Torque RIH & Static @ TD



Standoff Uncemented



Standoff Cemented



EXCELLENCE TO THE CORE

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