

GEOTECHNICAL SOLUTION ACCELERATES DATA DELIVERY

PROJECT OVERVIEW

An offshore operator required geotechnical surveys at an oil field in the North Sea from UTEC, a Geo-services brand in Acteon's Data and Robotics division.

The recent scope of work involved sample recovery using vibrocoreing and cone penetration testing (CPT) along and around cable routes and structures of the development.

THE CHALLENGE

Geotechnical site investigations are normally carried out onboard dedicated vessels where there is an abundance of deck space for operations including lifts, deployments, recoveries and sample processing and testing.

However, for this project the work needed to be carried out onboard a client supplied vessel which was not configured for geotechnical operations, and presented a challenge due to limited deck space, because of the vessel's configuration for its normal operations.

UTEK's knowledge and experience was required to integrate the geotechnical spread with the vessel.

CUSTOMER GOAL

The customer needed to be prepared for mobilisation within a dynamic window based on the vessel's operational schedule. They also required expedited analysis of the collected geotechnical data with results made available as soon as possible to allow them to understand their design and construction tolerances.

OUR SOLUTION AND ITS COMMERCIAL BENEFITS

Market-leading services and integrated solutions

- Seamlessly sourced a geotechnical spread including a 3m-9m vibrocoreing system, Neptune CPT system and over boarding chute.
- Mobilised a small geotechnical spread to suit the customer-sourced vessel.
- UTEK leveraged the expertise of Acteon companies MENCK and Aquatic to provide specialised equipment for the undertaking of this scope of work, and logistical expertise to ensure the timely transfer of samples to onshore laboratories for testing.
- UTEK is realising an increase in this sort of geotechnical survey application to maximise the utilisation of customer owned vessels and the integration with incumbent survey providers on more complex projects.

Operational bases across the world

- Multi-skilled personnel from across the Acteon Geo-services segment were utilised to provide around-the-clock support.

Work at scale with a proven track record for delivery

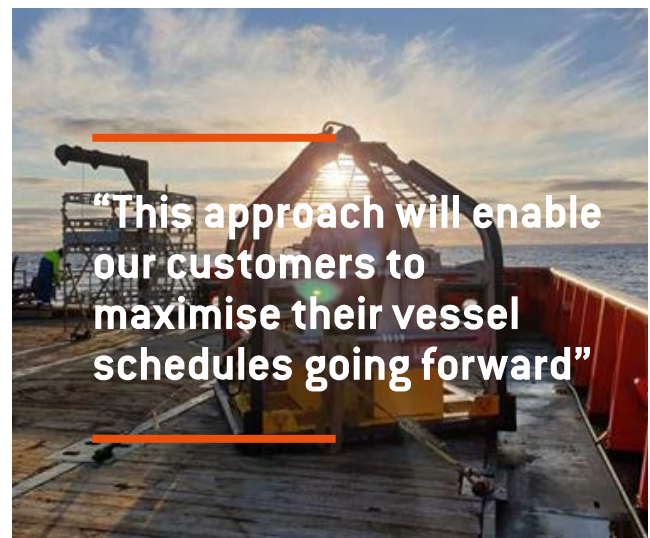
- The UTEK geotechnical team have an extensive track record of supporting customers on similar scopes of work, some with short notice mobilisation periods.

Optimise the project to increase commercial value

- The congested back deck was extensively modified in collaboration with the customer to enable the performance of geotechnical investigations. Packers were installed to level the deck and allow for a flat surface to land various equipment, enabling personnel to operate without encountering trip hazards.

PRODUCTS USED

- Neptune 5000 CPT System
- GMSS Geo-Vibro Corer



“This approach will enable our customers to maximise their vessel schedules going forward”