Quest Integrity, USA

Quest Integrity Group, a Team Industrial Services company, develops and delivers asset integrity and reliability management services and solutions globally. Its solutions consist of technology-enabled advanced inspection and engineering assessment services, as well as products that help pipeline companies increase profitability, reduce operational and safety risks while also improving their operational planning.

The company’s ultrasonic inline inspection (ILI) tool, InVista™, is a lightweight smart pig that provides 100% overlapping coverage of geometry and metal loss features in a single pass. In particular, the tool can detect wall loss and corrosion in unpiggable or difficult-to-inspect offshore pipelines. The pipeline geometry inspection data that is captured by the InVista tool is powerful when combined with the company’s LifeQuest™ pipeline fitness for service assessment capabilities. Together, the tools provide an integrated solution for the offshore oil and gas pipeline industry.

2016 has been a busy year for Quest Integrity. Numerous large scale offshore inspections were successfully executed in the US, Asia Pacific, Latin America and the UK. One notable project that the company is set to undertake in the coming year is a deepwater pipeline inspection for a US-based pipeline operator. The project will involve an offshore inspection of a 4 in. line that is located in the Gulf of Mexico. The project will take advantage of Quest Integrity’s ultrasonic ILI tools and capabilities.

Significant challenges are posed in ultra-deepwater inspections, including: high pressures of beyond 3000 psi; wall thicknesses that are beyond magnetic flux leakage capability; tool bidirectionality requirements; prohibitive pipeline configurations; and the need to successfully inspect the line in a single pass. Due to the inherent challenges of the specific inspection introduced above, the company’s pipeline integrity management service is expected to be an effective inspection, assessment and project management solution.

Looking to the year ahead

The real challenges for the oil and gas community lie in the reduction of capital spending from operators. One of the most significant obstacles the industry will face is how to operate in this new ultra cost-conscious environment. While this will prove quite challenging, Quest Integrity is founded upon the principals of improving operational planning, increasing profitability and reducing operational and safety risks. The company looks to the future as an opportunity to continue to work closely with offshore pipeline operators.

Figure 1. Quest Integrity’s custom ultrasonic ILI technology provides absolute coverage of geometry and metal loss features.