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YEARS MONTHS DAYS

Downhole monitoring & completions equipment exceeds 10-year run life

Decade-old Zenith® E-Series ESP gauge and Auto Flow Valve serve as example of longstanding commitment to world class service and equipment.

Challenge

In late September 2005, soon after Zenith Oilfield Technology Ltd. first opened its doors as an ambitious independent provider of downhole monitoring and completion equipment for the oil and gas industry, a Zenith field engineer travelled from what began as a small regional team base in Muscat, Oman, to meet with a Middle Eastern operator and begin installation of a Zenith E-Series ESP monitoring system in a well in an offshore oilfield.

Originally drilled in the 1970s, the well was being upgraded and ESPs introduced to the field to artificially lift oil reserves to surface and sustain production capacity of the ageing field. The Zenith E-Series gauge was selected to deliver reliable and accurate well and pump information to SCADA systems, enabling the customer to assess ESP performance, optimise production and manage the reservoir effectively.

Solution

Over the next four days, the Zenith engineer carried out the necessary equipment tests on the rig floor; preparing connections, fitting the Zenith E7 type gauge to the ESP motor, and continuously testing and checking the gauge, connections and cables throughout the run-in-hole process, completing the install on September 28, 2005. The pump was successfully started the following day.



CHALLENGE

As operators invest in ESPs to artificially lift declining oil reserves to surface, reliable insight into downhole operations and proactive prevention of downtime is critical to effectively sustain production capacity.



SOLUTION

The Zenith E-Series ESP gauge delivers reliable, accurate data for effective production management, while a range of tubing drain valves provides effective solids management to safeguard the ESP system.



BENEFITS

With a heritage of reliability and engineering excellence, GE's Zenith equipment provides a proven and dependable solution for confident assessment, optimisation and protection of operational performance.

Benefits

“Ten years on, this gauge continues to deliver valuable and reliable downhole pressure, temperature, vibration and electrical integrity information — despite the numerous power and pump shut downs and restarts inherent in offshore operations — empowering the operator with the ability to optimise production while protecting the well and prolonging pumping equipment run life.”

Raji Chahid, Regional Manager, GE Oil & Gas



← **A Zenith Auto Flow Valve** fitted in the same well also continues to perform through ten years of operation; automatically opening with each pump shut down to divert descending solids to the annulus and safeguard ESP equipment from blockage, damage, backspin and preventable workover.

From day one of business, Zenith very purposefully set out to deliver and maintain an exemplary product survivability record; actively ensuring that customers receive world class service and equipment.

In reaching such a significant milestone, this original Zenith E-Series ESP gauge and Auto Flow Valve are testament to a longstanding business objective which remains ingrained in the Zenith team through more than a decade of business, rapid global growth, 15,000 gauges and two acquisitions; continuing to develop, produce and support superior quality downhole monitoring and completion systems as part of GE Oil & Gas.