



CJS presents revolutionary oilfield technology

Armed with another technical application for their FlatPak™ technology, Lloydminster-based CJS Coiled Tubing Supply Ltd. aims to start a revolution in the wellbore cleanout services industry.

Developed in 2007 and commercialized in 2008, CJS's FlatPak™ vertical umbilical is designed to meet the current industry challenge of finding flexible and cost-effective means of deliquifying low-permeability sand, shale, and marginal production wells. Distinguished by its rectangular matrix design, the umbilical encapsulates multiple coiled tubing strings or electrical conduits into one uniform body using a high-strength thermoplastic jacket. This patent-pending technology replaces independent injection and production conduits.

"The FlatPak™ technology is truly revolutionary," claims CJS business development advisor Scott Kiser. "It could positively affect any oil or gas producer requiring artificial lift at some point in the life of their wells."

Kiser speaks enthusiastically about the product's versatility: the umbilical can be modified to encapsulate any coiled tubing string and/or electrical conduit and it can be deployed in existing gas or oil wells as a temporary work string or for permanent pump installation. "FlatPak™ can convey any hydraulic- or electric-driven pump," Kiser explains.

To date, the umbilical has been deployed in both Canada and the United States, and the company recently partnered with Netherlands-based oilfield service company, Coil Services BV, in order to facilitate distribution throughout Europe, Africa, Saudi Arabia, and the Middle East. Kiser cites successful deployments for such North American companies as EOG, Devon and Chesapeake, and adds that CJS will soon run its deepest application for Shell in their Pinedale Wyoming tight gas field, where depths will reach 13,500 feet.

CJS is currently working with several pump providers to identify new artificial lift solutions, with the goal of providing operators with lower intervention costs and longer pump run

lives. "When it comes to vertical marginal wells, hundreds of thousands of North American oil and gas wells suffer from liquid holdup or high operating costs due to various issues with current pump technologies," Kiser explains.

To date, FlatPak™ has been manufactured in dual, triple and quad CT configurations complementing hydraulic submersible pumps ("HSP"), bellows-style pumps, modified jet pumps and gas-lift supported HSP technology. Kiser points to the technology's efficiency and durability: the FlatPak™ facilitates live well intervention – eliminating the need to kill the well – and allows operators to run pumps into deviated wells or horizontal well laterals without the concerns of tubing or rod wear. By using the FlatPak™ technology, operators can now "land pumps to 3,000-foot depths and have the wells back on production in eight hours." CJS believes that technologies utilizing FlatPak™ could ultimately replace conventional cleanout technologies industry-wide.

Kiser reserves special enthusiasm for a newly introduced application for the FlatPak™, the JetVak technology. Licensed for use by Calgary-based Quantum Downhole Systems, the JetVak technology combines the FlatPak™ umbilical with a specifically engineered jet pump in order to facilitate concurrent jetting and pumping operations. Quantum considers the technology to be ideal for post-frac cleanouts and production evaluations on low-pressure gas, oil, vertical or horizontal well types. While conventional cleanout technologies utilize circulation of high volumes of fluid, nitrogen and/or foam, these techniques are only marginally successful, creating an over-balanced effect on the well bore and pushing some of the solids back into formation. The JetVak technology aims to solve this problem.

"The JetVak creates a balanced or slightly underbalanced pressure condition in the wellbore," explains Kiser. "This allows for a safe, cost effective and technically superior cleanout operation."

Jointly owned by CJS and Calgary-based Source Rock Energy Partners, the JetVak technology is the second of two

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technologies licensed for use by Quantum. The first – the JetPak cleanout system – has experienced success with several top-tier companies, including Ember Res, Quicksilver, Arc Energy Trust and Canadian Natural Resources.

“All of these companies loved it!” Kiser exclaims. “They found that difficult or impossible cleanout operations became possible and post-cleanout production results were much improved in many cases.” CJS and Quantum anticipate similar success for the JetVak system, which was deployed for the first time in May 2010.

For further information, please visit CJS Coiled Tubing Supply Ltd.'s website at www.cjsflatpak.ca or contact Scott Kiser at (403) 463-4740. ■

JetVak System



- Post Frac Cleanouts
- Production Testing/Evaluations
- Increased Pump Life on the Final Completion
- 100% underbalanced
- Cost Effective (No Nitrogen)
- Proven with over 200 operations



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