AADE 01-NC-HO-48

Proven Abilities of an Intelligent Well to Improve Wellbore Economics

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Abstract

This paper will use case histories to describe the ability of a hydraulically actuated Intelligent Well System™ to improve the Net Present Value in a variety of completion scenarios. These case histories will include both onshore and offshore producer and injector type wellbores that have been installed throughout the world.

The authors of the paper will summarize this type of technology with regard to the operational and economical challenges within each of the applications while explaining how the Intelligent Well Technology was eventually applied to address these challenges. For each installation, the paper will:

- Describe unique completion solutions with the ability for remote control of the wellbore
- Quantify improved times for first production (in the case of producers)
- Quantify savings in time, costs, and/or lost production compared to other completion alternatives
- Highlight reservoir and production knowledge gained by the use of an Intelligent Well System.

The end result for this paper is to present facts based on history and performance data as opposed to theoretical or predicted results.