



Proven Abilities of an Intelligent Well to Improve Wellbore Economics

Jesse J. Constantine, Baker Oil Tools.

Copyright 2001 AADE National Drilling Technical Conference

This paper was prepared for presentation at the AADE 2001 National Drilling Conference, "Drilling Technology- The Next 100 years", held at the Omni Westside in Houston, Texas, March 27 - 29, 2001. This conference was hosted by the Houston Chapter of the American Association of Drilling Engineers. The information presented in this paper does not reflect any position, claim or endorsement made or implied by the American Association of Drilling Engineers, their officers or members. Questions concerning the content of this paper should be directed to the individuals listed as author/s of this work.

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.