

Using Oriented Perforating for Improving the Results of Plug and Perf Limited Entry Treatments

Dave Cramer, ConocoPhillips

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Dave Cramer, a Senior Engineering Fellow at ConocoPhillips Company will speak on Thursday, March 4, 2021.

The topic is “Using Oriented Perforating for Improving the Results of Plug and Perf Limited Entry Treatments.”

Abstract

Test results indicate that orienting perforations in a straight line (zero-phase) along the high side of the wellbore significantly improved treatment distribution among perforation clusters. Oriented perforating achieved this benefit without needing to increase initial perforation friction beyond the area standard of 1300 psi. This finding is relevant for all geologic settings, including the strike-slip faulting environment. Based on the results of this study and a lookback on well productivity results from a prior treatment campaign that utilized oriented high side perforating, ConocoPhillips Company decided to incorporate oriented high side perforating as a standard practice for future completions in all unconventional plays.

Biography

Dave Cramer is a Senior Engineering Fellow on the ConocoPhillips Global Completions Engineering staff in Houston, TX and specializes in hydraulic fracturing applications and treating pressure analysis. Dave has published 52 technical papers and holds 2 U.S. patents. He is a registered Professional Engineer in Colorado. Industry recognitions include the Henry Mattson Technical Achievement Award by the Denver SPE chapter in 1993 and the SPE International Completions Optimization and Technologies Award in 2011. Dave was an SPE Distinguished Lecturer from 2003-2004 and the SPE Region Director for the U.S. and Canada Rocky Mountain region from 2004-2007.