

First installation of Fishbones stimulation system in carbonate formation sets world record with 60 laterals in one well

Fishbones was successfully installed in the EnerVest Operating L.L.C. C.B. Jones well no. 2 in Texas, USA, on April 3rd, 2014. The well is an existing horizontal oil well in a tight limestone formation in the Austin Chalk. A 4.5in liner string with 15 each Fishbones subs and 3 each Backbone open hole anchors was installed.

The pumping operation was performed as planned. The Acid releasable shoe closed upon contact with acid, and the subsequent jetting operation, where 60 laterals were created, went as planned. Pressure verification responses were seen as the Fishbones needles fully extended. The total pumping time was approximately 5 hours including jetting and fluid displacement.

The installation is a pilot project managed by the Joint Chalk Research group; a North Sea research cooperation including BP, Shell, ConocoPhillips, the Danish North Sea Fund, Dong, ENI, Hess, Maersk, Statoil and Total. The project is also supported by the Norwegian Research Council.



Predictable jetting efficiency

Prior to the installation in Texas, acid jetting testing on representative core samples provided by EnerVest was performed at Fishbones' facilities in Norway. By using state of the art testing equipment, jetting acid at downhole temperatures, the time to jet 40ft (12m) needles into the formation was accurately estimated.

