Case Study

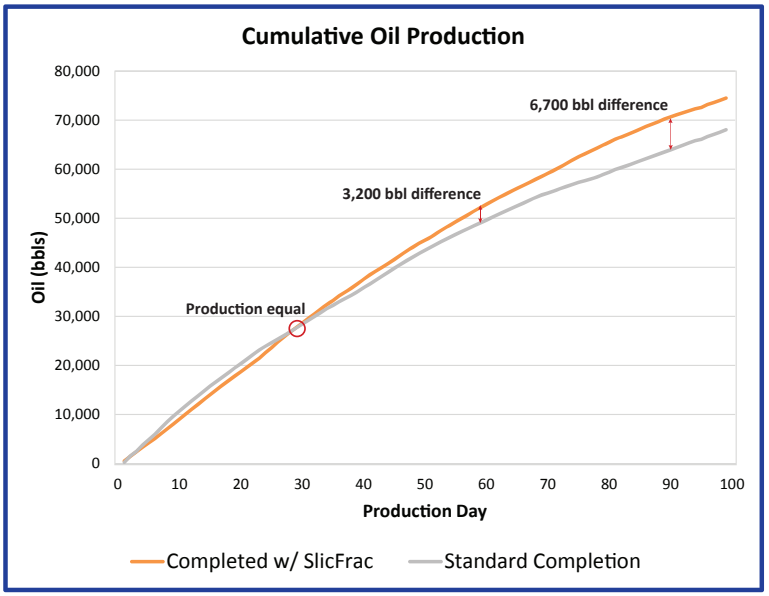
SlicFrac®

Increased Production with SlicFrac

Case Study No. 6208

DETAILS:

Location:	**Karnes County, TX**
Formation:	**Austin Chalk**
Operation Depth:	**13,600'**
Well Orientation:	**Horizontal**
POD Type:	**Bio-Rez® Lo Degradable PODs (150ºF)**
Type of Operation:	**Plug-n-Perf | Mid-Stage Diversion**



Plug-n-Perf style completions utilize a bridge plug to isolate the wellbore between each perforated interval. The frac treatment is broken up into corresponding stages, designed to be pumped evenly into each perforated interval, providing reservoir contact across the entire wellbore. Unfortunately, not all formations break down or treat the same leaving some clusters understimulated during the frac treatment.

A customer in South Texas was interested in determining the most effective solution to optimize their production. Under similar wellbore conditions, they utilized a two well pad to evaluate the use of Thru Tubing Solutions' SlicFrac Diverter System to stimulate one well and completed their standard plug-n-perf design on the second well.

SlicFrac Perf PODs were deployed mid-stage to effectively plug the dominant perforations and divert the proppant to understimulated clusters, thus generating increased reservoir contact. SlicFrac allowed the Operator to maintain a consistent stimulation volume into each cluster, ultimately providing a more balanced treatment and ensuring the target reservoir was given every opportunity to perform to its full capacity.

Initially, oil production started lower on the SlicFrac well but caught up to the offset well by day 29 and steadily surpassed it by day 60 with a cumulative 3,200 bbl difference. The trend continued into day 90 where the SlicFrac stimulated well produced approximately 6,700 bbl more than the non SlicFrac stimulated well.

The customer was pleased with the results and is including SlicFrac in future wells.