

DRILL2FRAC NEWSLETTER

2018 IN REVIEW



Volume 1 / Issue 1

NEW ADDITIONS

BRIAN SINOSIC – HOUSTON

Technical Advisor

PASCUAL REYES AGUIRRE –

DENVER

Technical Advisor

New Arrival

D2F's Meg Dodge welcomed baby Riggs on December 10, 2018. The family is all doing great! Meg will be back in action in February.

EVENTS

February 5-7, 2019

**SPE Hydraulic Fracturing
Technology Conference (HFTC),
The Woodlands, TX**

Rob Downie with D2F will be presenting a Drill2Frac FracCheck service case history. Find our technical experts in booth 7 showing our latest technology.

April 3-4, 2019

**SPE Permian Basin Completions
Group Re-frac Conference,
Midland, Texas**

Meeting will feature SPE 191600, a case history involving Drill2Frac's Engineered Diversion service in the Midland Basin.

SUCCESS STORIES

Drill2Frac is focused on working with E&P companies to better understand and document benefits seen by them. A list of success stories reported by our clients can be found on our [web site](#). Two of these study's benefits are featured below.



The two studies each had different purposes. The primary objective in SPE 191600 was a reduction in completion costs by reducing the number of stages. D2F's engineered diversion strategy helped to develop a completion design to meet the project goals. The production gains are based on 90-day cumulative production numbers.

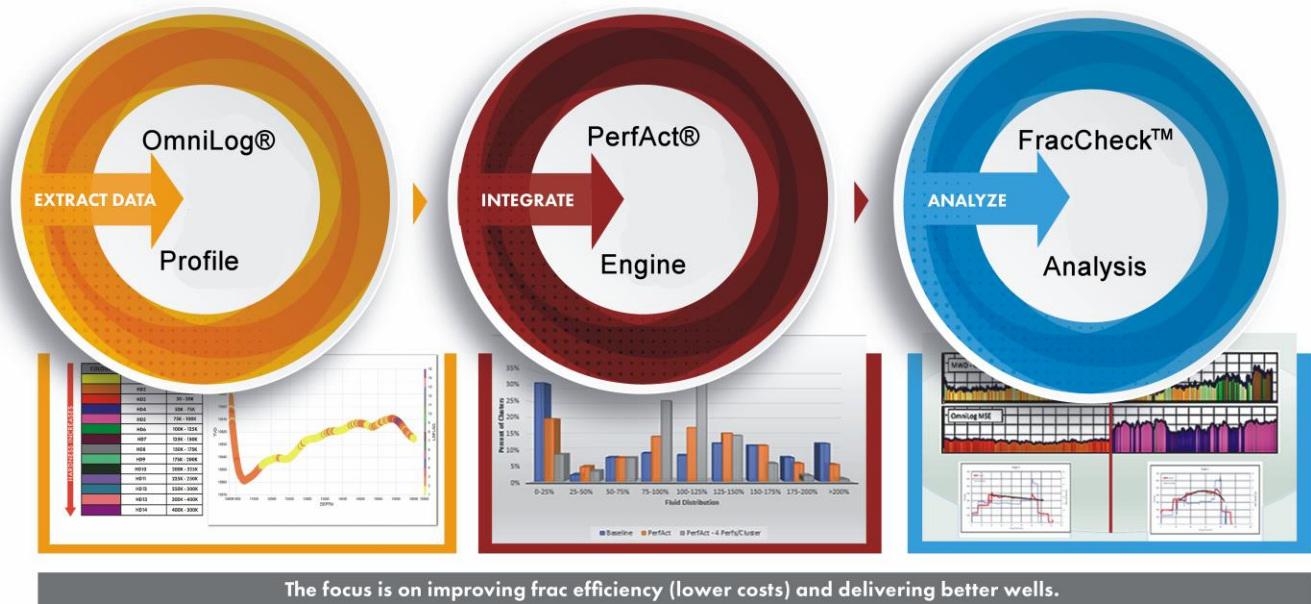
The primary objective in SPE 194357 was to benchmark improvements in production and fracture efficiency without changing either the pump schedule or the number of stages. OmniLog and PerfAct platforms were used to optimize the client's base completion design. The gains in fracture efficiency and performance were verified by FracCheck.

AWARD

The D2F Engineered Diversion continued to get additional industry recognition. Case studies show the impact of PerfAct on engineered diversion results, a trend that was recognized by the World Oil award for Best Completions Technology.



2018 PLATFORM INNOVATIONS AND ADVANCEMENTS



Drill2Frac delivers the industry’s first integrated service that integrates rock properties derived from drilling data, completion optimization and treatment data. Service is focused on improving frac efficiency and delivering better wells. Since no new additional data is required, the platform can be used with historical and existing wells, and the analyses applied to drilled-but-uncompleted assets (DUC), as well as new completions. Automation gives rapid turnaround, and results can be delivered in days. The service combines the latest technologies in data sciences (machine learning, multivariate analysis) with proven engineering concepts to provide meaningful and relevant solutions.

Machine Learning & OmniLog Profile



Drill2Frac added Machine Learning models (MLM) to the OmniLog process. The addition of MLM reduces errors and improves accuracy of RockMSE. It is used on each well with all available data for that specific well.

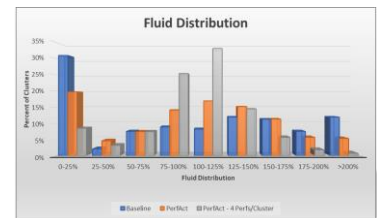
FracCheck Service ★ New

The FracCheck process is used to identify relationships between rock properties, frac treatments, pressures, and performance for each well. By better understanding these relationships, completions can be optimized. More information on FracCheck can be found on our [website](#).



PerfAct Completion Engine

Two key features were added to the PerfAct platform – fluid distribution and increased data analytics. The chart illustrates the fluid distribution model which provides an estimate of over-and-under stimulated clusters. Based on the fluid distribution model, completion designs can be optimized to improve cluster efficiency and well performance.



Increased analytics in the PerfAct platform enable recommendations for completion design optimization.

The second chart shows cluster efficiency improvements in three different completion configurations.

