



## Case Study

# Drilling out 103 frac plugs in one run sets new operator record, West Texas

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## Location

Midland Basin, Texas, United States, North America, Onshore

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## Summary

**Challenge:** Maximize drillout efficiency of frac plugs in two wells with measured depths up to 19,694 ft in the Midland Basin.

**Solution:** Deploy FracXion Micro™ fully composite frac plugs that have minimal metal content and reduce both drillout time and debris size.

**Results:** Drilled out 103 plugs in one well and 99 plugs in the second well in just one run each.

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## Objective

## Operator sought to drill out more than 100 frac plugs in one run

An operator in the Midland Basin planned to hydraulically fracture two wells using plug and perf in 5½-in casing. Well 1 required 103 frac plugs while Well 2 required 99. In previous wells, the operator had drilled out a maximum of about 80 plugs in one run. The objective was to extend that record with these two wells, using just one BHA in each well to minimize rig time. Another priority was to ensure small cuttings in the returns.

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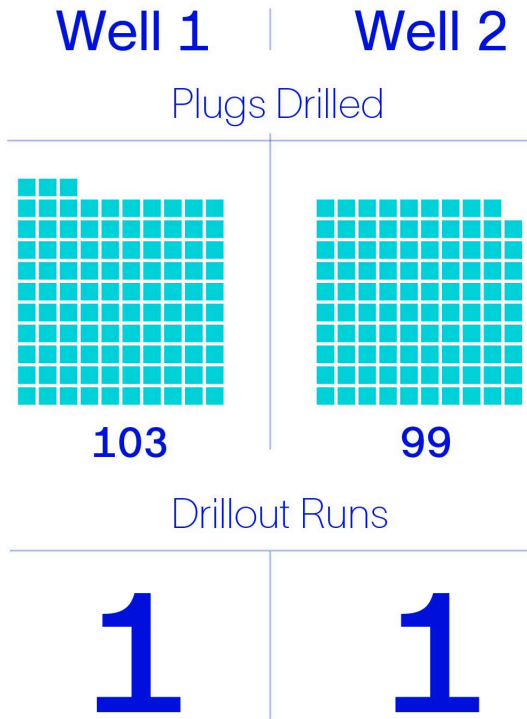
### Results

#### Fully composite frac plugs offered low metal content

SLB proposed using FracXion Micro fully composite frac plugs. The 5½-in plug is just 16.35 in long and engineered for drilling out with minimum torque, generating small, light cuttings that are easily circulated out of the well. Special clutch features at the top and bottom of the plug prevent spinning between plugs during drillout, reducing drillout time. The hollow metal button slips are designed to shatter during drillout. This feature and the reduced metal content improve drillout time—extending BHA life—and decrease debris size even further. Redundant antipreset features that enable run-in speeds of up to 600 ft/min for faster deployment are an added advantage.

#### Operator achieved fast drillout with a single BHA per well

After stimulation was complete, both Well 1 and Well 2 were drilled out in one run each. Additionally, small cuttings were obtained at good drillout rates of 9.6 min/plug and 8 min/plug, respectively. Wash times were also excellent at 32 min/plug and 24 min/plug in the two wells. The operator was delighted with the results and plans to continue using FracXion Micro frac plugs for future wells.



The operator drilled out a record 103 frac plugs in Well 1 and 99 frac plugs in Well 2 in one run each. The composite construction and hollow metal button slips of the FracXion Micro frac plugs resulted in small, light cuttings that were easily circulated out, with average wash times of 32 min/plug and 24 min/plug in Wells 1 and 2, respectively.