



CASE STUDY

DISSOLVABLE SUCCESS STORY

Field tested efficiency

Product: Magnum Vanishing Plug™

Shale Play: Bakken

Location: McKenzie County, ND

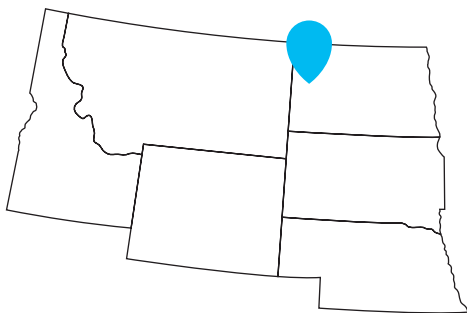
Date: 2016 - May

Well Type: Extended Lateral

Stage Count: 24

Casing Size/Weight: 4.5" 13.5#

Bottom Hole Temp: 265° F



24 STAGES SUCCESSFULLY TESTED IN THE BAKKEN

CHALLENGE An operator in the Bakken wanted to test the efficiency of dissolvable frac plugs for unconventional fields of plug and perf. The operator chose the Magnum Vanishing Plug™ due to its ability to eliminate intervention operations that are required after plug and perf jobs when using composite frac plugs.

SOLUTION: The trial of the MVPs during frac operations was considered successful after all plugs were set and held during all stages of the frac. After the frac the operator was able to get to work on a short timeline of 7 to 10 days post frac and execute a high rate flowback period. During this flowback period the team received a few buttons from the slips giving strong indication that the plugs had dissolved. For additional confirmation, the company ran coiled tubing through the entire lateral and only had one indication of tagging debris at stage 20. After this series of tests, the company considered the trial of MVPs to be successful and began running them on additional wells.

