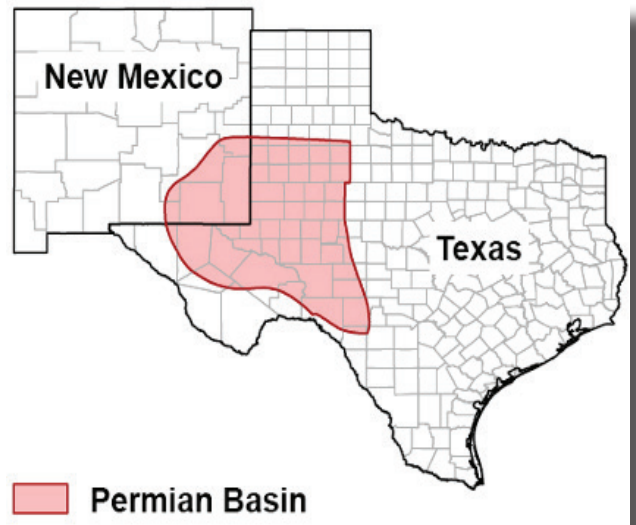


### Permian Basin Operator Prevents Asset Failure During Frac Job

**Background** - August, 2016 - A prominent E&P company in the Permian Basin was performing a high rate pressure pumping job on a well which was part of a 3 well pad.

**Issue** - While pumping 80 bbls/minute the service company was nearly half way through the stage with proppant concentrations at 4 lbs/gallon increasing to 5 lbs/gallon. Surface pressures were trending normally at 8,400 psi in the frac van compared to the other stages that had been pumped previously. Without notice, a screen out occurred, sending the pressure soaring above the MAWP which was established at 8,900 psi, the same pressure that the nitrogen valve was set to prior. While the pumps were staggered to handle any pressure spikes, the slow reaction time created an overpressure event.



**Outcome** - The service company fracking the well was utilizing the Oseco Safety Plug, engineered as a fuse to activate at 9,400 psi. As the pressure spiked, the event was terminated by the Oseco Safety Plug and the pressure was relieved safely as the pumps came to a halt. The pressure never exceeded 9,400 psi, preventing catastrophic asset failure. Notably, the nitrogen valve never activated, while the Safety Plug opened in .004 seconds, indicating the undetectable speed with which a pressure spike may occur.

Let us help you with all your pressure relief questions.

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