

# Power Chokes® delivers bespoke managed pressure drilling solution



## Objectives/Background

- Power Chokes® was approached by the customer to assist in drilling an additional well in West Texas
- While drilling this formation, the customer was experiencing large debris in the drilling returns. This led to issues in packing off, which can result in Chokes becoming fully blocked
- The formation being drilled was experiencing pressure-related issues. The customer was keen to implement Managed Pressure Drilling (MPD) techniques to help control the pressure
- Other drilled wells in the same location had been encountering pressure issues, which had led to non-productive time (NPT). The customer had not been able to reach their target depth
- From a safety perspective, not being able to control pressures can lead to well control issues, which are critical, and this is something that all rigs aim to avoid

## Power Chokes®

- Our team was able to offer a 4" trim choke with low-pressure drop and the capability of flowing 2" debris which vastly reduces the likelihood of pack off

- Power Chokes® Automated Back Pressure (ABP) uses software that highlights pack off and can automatically engage the second choke
- We provided a Pressure Relief Valve (PRV) system that reduced the pressure spikes if pack off happened
- Our fully Managed Pressure Drilling (MPD) system operates with a crew of two or three people compared to other systems that require four to five people

## Value to Client

- The customer had no pack off issues despite the size and quantity of debris which can be seen in figure 1
- Power Chokes® bespoke, cost-effective Managed Pressure Drilling solution offered the customer a premium service, which resulted in being able to drill deeper. Currently, none of our competitors can offer such a high performing pressure control as can be seen in figure 2
- Our chokes can identify both pack off and switch over, giving low frictional pressure at the surface
- The customer had zero non-productive time (NPT) in this challenging well
- Power Chokes® MPD system requires reduced operations personnel

For further questions or quotation requests, contact [PowerChokes-Sales@adsmpd.com](mailto:PowerChokes-Sales@adsmpd.com).

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