**Case Study** 

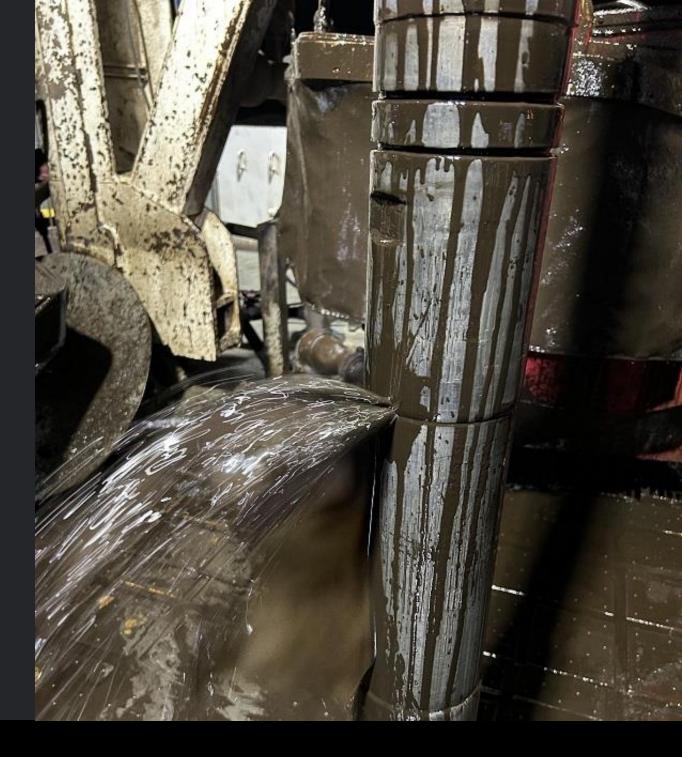
**Drilling Beliefs & Analytics | DBA** 

# Drillstring Washout Identified in Real Time

While drilling the 6.75" section, DBA Abnormal Pressure Loss and Washout Beliefs provided early warning of a developing washout. Real-time analytics detected a significant pressure drop trend, prompting the rig to trip out before a twist-off occurred. The rig subsequently confirmed a drill pipe connection washout, validating DBA's timely detection.

**Cost avoided** 

\$1.5M





# **Event Summary**

While drilling ahead, the Drilling Beliefs & Analytics (DBA) solution flagged abnormal pressure loss with high confidence. The alert coincided with a visible pressure trend, validating concerns of a wash. Upon tripping out, the rig confirmed a washout at the drill pipe connection. DBA's alerts provided the confidence needed to act before the situation escalated.

# Response

Rigsite personnel performed surface checks, then tripped out to investigate. The washout was located and defective joints laid out, preserving the BHA and drill pipe integrity.

### **Outcome and Value Delivered**

DBA's timely detection, combined with the Drill Site Manager's (DSM) vigilance, prevented a twist-off that would have required fishing and possibly a sidetrack. The avoided cost of \$1.5M underscores the critical value of real-time washout detection in maintaining drilling efficiency and safeguarding equipment.

### **Well Details**

Timeframe:

April 2025

Location:

Delaware Basin - US Land

Well Section:

6.75" Lateral

**Measured Depth:** 

14,548 ft

# **Key Event Timeline**

12:00 Pressure Loss Trend

DSM observed gradual standpipe pressure decline over several stands.

14:20 DBA Alert

Spiked to 0.77, indicating potential washout; pump pressure dropped ~300 psi.

18:00 Decision to POOH

DSM elected to trip out of hole, inspecting for wash.

22:45 Action

Inspection revealed a wash at 766 ft on a drill pipe connection.

