

## ExP BHA

**ExP** has been able to implement fluid conditioning and manipulation properties to successfully manufacture technologies that can help assist in the recovery of both Oil and Gas during work-over (cleanout) operations.



## **Case History**

Sand and dehydrated 10.5 lb Drilling Mud and debris in wellbore

**Objective:** Utilize 1.25" CT with the 1.33" ExP BHA to remove sand, mud and debris from inside the tubing and wellbore, utilizing produced water and N2 (when needed). Spot 10% inhibited and nitrified acid across the perforations to help with stimulation of the formation. Tubing: 2 3/8" Casing: 5.5" Well TD: 9650' CT Size: 1.25" CT Speed: 50-100 ft/min Circulation PSI: 1,900-6000 Fluid Flow Rate: .25 bbls – .75 bbls/min N2 Flow: 300-400 CFM Acid: 2000 Gallons



**Location:** Cotton Valley, East Texas

**Problem**: Dehydrated 10.5 lb drilling mud and sand bridges in wellbore with some scale

**Procedure:** The **ExP** tool was deployed via 1.25" third party coiled tubing. An initial pump rate of .25 bbls/min with 300 CFM N2 was pumped with circulating pressures of 2,000psi. When the first sand bridge was encountered at 6,183 the CT was picked up by 50ft and the fluid rate was increased to .5 bbls/min with 200lbs WOB, which removed the debris bridge. At 8,621 a second bridge was encountered. Within 10 minutes the coil pushed through more blockages. The ExP continued to remove the obstructions in a timely manner to TD. Upon complete removal of all debris, 10% mud acid was spotted across the perforations to help stimulate the near wellbore region of the well.

**Total Time from RIH to TD:** 5 hours 22 minutes

**Result:** Removed all mud, sand and debris

Pre-ExP Intervention: 60-80 MCF (Gross)

Post ExP intervention: 360-440 MCF (Gross)

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