



WPX Energy
Low TOC Remediation Procedure

Wellname: **GM 513-33**
Date: 12/4/2014
Field: Parachute

Prepared By: Jennifer Schrant
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Purpose: Increase the height of the cement to 200 feet above the mesa verde formation

Well Information:

API Number:	05-045-22492
Production Casing:	4-1/2" 11.6# I-80
Shoe Depth:	6,728.2 ft
Float Collar Depth	6,726.6 ft
Surface Casing Depth	1,034.7 ft
Top of Mesaverde:	3,614 ft
Top of Gas:	4,839 ft
Correlate Log:	Baker CBL - 9/15/2013
Max pressure:	2,500 psi

Well History:

- This well has the Lower Cameo and Cameo zones completed
- The well has a TOC at 5,818', which is approximately 2,000 ft below required top

Proposed Procedure:

Squeeze to be performed after the first stages of hydraulic fracturing has taken place

- 1 RIH and set in solid composite plug at 5,820 ft
RIH with wireline and shoot 3 holes at 5,757 ft
Use rig pump to get injection test
Pump Injection Test: 2, 3, & 4 bpm
Get ISIP, 5, 10, and 15 min shut in pressures

RIH and set cement retainer at 5,600 ft

RIH with tubing and sting into retainer
MIRU cement crew

*Depending on Injection Test the Spacer will either be water, Mud Flush, or Super Flush

Pump 650 sacks of 15.8 ppg cement and fluid loss

Sting out of retainer and reverse clean tubing

POOH with tubing

Allow cement to set for 24 hours

Run a CBL log to confirm new TOC
Send copy of bond log to Jennifer Schrant
RIH with bit and tubing and drill out cement retainer and cement to solid plug at 5,820 ft
Pressure test squeezed perms to 2000 psi

If new TOC is acceptable continue with completion procedure with approval from BLM and COGCC
If new TOC is not acceptable another squeeze procedure will follow