



WPX Energy

Remedial Cement Procedure

Wellname: **PA 433-2**
Date: 5/22/2013
Field: Parachute

Prepared By: Kristin Trahan
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Purpose: Raise Top of Cement

Well Information:

API Number:	05-045-20887
Production Casing:	4-1/2" 11.6# I-80
Shoe Depth:	1517'
Surface Casing Depth	8645'
Tubing:	2 3/8" N-80 at 8,181 ft
Perforated Interval:	8444'-6705'
Top of Mesaverde:	5168'
Top of Gas:	6393'
Correlate Log:	Baker CBL Log 4/3/2013
Current TOC:	5392'
Max pressure:	3000 psi

Well History:

WPX drilled this well in March 2013.
Current top of cement was called at 5392', which does not cover the required 200' above top Mesa Verde
Initial bradenhead pressure was 0 psi
A notification of low TOC was sent out along with a request to complete the desired intervals with top perf at 6705
Permission was granted with the COA that remediation be performed after completions
No problems observed during completion activity
Current bradenhead pressure is 0 psi

Proposed Procedure:

- 1 MIRU service unit. POOH w/ 2 3/8" tbg
- 2 RIH w/ wireline and set CBP at 4700 ft.
Bleed gas from wellbore
Pressure test plug to 3000 psi
- 3 Perforate 3 sqz holes at 4520 ft (deepest true free pipe)
Pump injection test at .5bpm, 1 bpm and 2bpm if there are returns through the bradenhead
Get ISIP, 5, 10 and 15 min shut in pressure
Call Kristin with results
Set retainer at 4420 ft
- 4 MIRU HES Cement Crew. Sting into retainer and pump 20 bbl Spacer (TBD from injection test)
Pump 150 sx 15.8 ppg Cement
Pump 50 sks 17.0 ppg Neat G Tail w/ 0.5% CFR-3
Displace to within 0.5 bbls of EOT

- 5 Sting out of retainer, pump 0.5 bbls of cement on top of retainer.
 Reverse circulate tubing.
 SI Bradenhead to allow cement to set - Monitor pressure.
 POOH with tubing and SDFN.
- 6 Allow for 24 - 48 hrs cement set time.
 Monitor Bradenhead Pressure - Call Denver if it reaches 150 psi.
- 7 MIRU wireline
 Run CBL from top of cement to surface shoe (or visible cement)
 Send .pdf to Kristin as soon as possible to get approval to continue with operations
- 8 Wait on orders
 Must get new TOC approved from COGCC and BLM
- 9 RIH with bit and 2 3/8" tubing. Drill out Cement Retainer/cement
 POOH bit and tubing.
 Pressure Test Squeeze Holes to 1,000 psi
 BLM requires pressure test to be charted
 Monitor Bradenhead Pressure - Call Denver if it reaches 150 psi.
- 10 MIRU wireline
 Run CBL from CBP to Surface Shoe
- 11 RIH w/ bit and 2 3/8" tubing
 Drill out CBP at 4000 ft.
 Clean out rathole
 Return well to production