



WPX Energy

Production Casing Remediation Procedure

Wellname: **KP 421-9**
Date: 10/15/2014
Field: Kokopelli

Prepared By: Kristin Trahan
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Purpose: Remediate to eliminate bradenhead pressure

Well Information:

API Number:	05-045-22216
Production Casing:	5-1/2" 17# I-80
Shoe Depth:	6,338 ft
Surface Casing Depth	1,612 ft
Top of Mesaverde:	1,936 ft
Top of Gas:	3,556 ft
Perforated Interval	6,114 - 3,998 ft
Correlate Log:	Halliburton Cast-M 8/30/14
Current TOC	1,825 ft
Max pressure:	2,500 psi

Proposed Procedure:

- 1 MIRU workover rig
unland tubing and POOH
PU RBP and RIH. Set at 3,950 ft
Pressure test plug to 3,000 psi
Dump bail sand on top of plug
- 2 MIRU wireline
Perforate 4 squeeze holes as 2,240 ft
POOH with wireline
- 3 Pump injection test at .5bpm, 1 bpm and 2 bpm
Get ISIP, 5, 10 and 15 min shut in pressure
- 4 MIRU workover rig
PU retainer and tubing and RIH.
Set retainer at 2,140 ft (100 above perfs)
POOH
- 5 PU stinger and RIH
Sting into retainer
Pump injection test at .5 bpm, 1bpm and 2bpm
Get ISIP, 5, 10 and 15 min shut in pressure
- 6 MIRU HES Cement Crew.
Pump 150 **sx** of 16 lb/gal cement, Super CBL with bradenhead open
Pump 50 **sx** of 17 ppg cement. Close bradenhead last 2 bbls
Displace cement to 0.5 bbl EOT
Monitor Bradenhead Pressure

- 7 Sting out of retainer and pump last 0.5 bbl on top of retainer
 Reverse clean tubing and POOH
 Leave bradenhead shut in
- 8 Allow for 24 hrs cement set time.
 Monitor Bradenhead Pressure
- 9 If bradenhead has been eliminated
 RIH with bit and 2 3/8" tubing.
 Drill out cement and cement retainer to RBP
 Pressure test perfs to 2000 psi
 Monitor Bradenhead Pressure
- 10 MIRU wireline and run CBL from RBP to 1,000 ft
 Send to Kristin and note new TOC
- 11 PU retrieving tool and RIH.
 Latch onto RBP and POOH
 PU tubing BHA and tubing and RIH
 Land tubing at 5,789 ft