



WPX Energy

Remediate Bradenhead Pressure

Wellname: **GM 702-4-HN1**
Date: 10/30/2013
Field: Grand Valley
Loc: Sec. 4 T7S R4W (1401 FNL, 2354 FEL)

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Well Information:

| | |
|----------------------|--|
| API Number: | 05-045-22051 |
| Top of Mesaverde: | 3280 ft |
| Surface Csg: | 13 3/8" 68# HCN-80 @ 2472 ft |
| Intermediate Csg: | 7 5/8" 29# HCP-110 @ 10,727 ft |
| Production Csg: | Tapered String (5 1/2" 23# HCP-110 DQX and 4 1/2" 15.1# HCP-11- DQX) @ 15,032 ft MD w/ x-over @ 7,618 ft |
| Correlate Log: | RMWS CBL dated 9/30/2013 |
| 7 5/8" TOC: | 2510 ft (Baker CBL dated 8/10/2013) |
| 7 5/8" DV Tool: | 4305 ft |
| 5.5"x4.5" TOC: | None |
| CIBP: | 10K CIBP @ 10,476 ft MD |
| CICR | 10,370' (plus 1/2 bbl cement) |
| Tubing: | None |
| Max Pressure: | 10,000 psi |

Objective: Squeeze to isolate pressure on 7 5/8".
Ensure pressure on 7 5/8" is remediated

Proposed Procedure:

- 1 Perforate with casing punch at 10,300' (3.2 grm x 10 shots)
Monitor surface pressure
Notify Ty Woodworth of results
- 2 Pump injection test at 1 and 2 bpm
Call Ty Woodworth if unable to get injection rate
Get ISIP, 5, 10 and 15 min shut in pressures
- 3 RIH and set cast iron cement retainer at 10,200'
- 4 PU tubing and RIH
- 5 RU HES cement crew
Sting into retainer
Place 8 bbls of 17.5 ppg (44 ft³) w/ 7 5/8" open (1.35 ft³/sk)
Shut 7 5/8" and place 2.5 bbls (15 ft³)
- 6 Sting out leaving 1/2 bbl on rtnr
POOH
- 7 Wait on cement 48 hours
- 8 RIH w/ CBL and log sqz

17.5 ppg Yield: 1.35 ft³/sk
4 1/2" 15.1# Capacity: 0.0798 ft³/ft
4 1/2" x 7 7/8" Ann. Capacity: 0.1473 ft³/ft