

**From:** [Craig Burger - DNR](#)  
**To:** ["Graeve, Mark"](#)  
**Subject:** RE: Low TOC Notification 045-22503  
**Date:** Thursday, March 12, 2015 1:10:00 PM

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COGCC Doc#2597148

Mark,  
WPX can proceed with the planned completions.  
The low TOC will need to be addressed with one of the following options:

Option 1: Remediate the production casing to provide cement coverage specified in the COA. A sundry notice for intent is not required if the Form 5 has not been submitted and the repairs will be included on the Form 5 submittal. We can comment on proposed procedures if desired.

Option 2: Provide a conclusive, written demonstration with attached exhibits on a Sundry Notice using drilling records, bradenhead pressures, logs, water well records and/or any offset oil & gas well records to demonstrate that fluids (oil, gas, and water) and coal seams are adequately isolated to prevent cross-zone migration. If the demonstration is acceptable, then we will waive the COA requirement.

Please call if you have questions.

Craig Burger  
Northwest Area Engineer



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**From:** Graeve, Mark  
**Sent:** Thursday, March 12, 2015 9:24 AM  
**To:** 'Craig Burger - DNR'  
**Subject:** Low TOC Notification

Hello Craig,

This email is to notify you that GM 342-28 on the GM 323-28 Pad has a low top of cement.

Please advise, the well is currently scheduled for completion.

API #: 05-045-22503 MV Well

- New drill – GM 342-28
- Top of Cement- 5,088'
- This well doesn't cover the top of the Mesa Verde, Mesa Verde Top Geology pick: 4,683'

- This well does cover the top of gas Geology pick: 5,826'
- Bradenhead pressure is 0 psi
- The planned top perf depth is approximately 500' below the top of cement

Thanks,

Mark Graeve

Completions Engineer II

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