



**Andrews, David**

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**From:** Andrews, David  
**Sent:** Tuesday, March 15, 2011 4:39 PM  
**To:** 'Schmidt, Andrew'; King, Kevin  
**Subject:** RE: PA 442-12 Low top of good bond

Andrew,

Please proceed. The TOC of 6152' (my pick on the CBL) provides more than 200' of cement above the TOG of 6433' and thereby satisfies the cement coverage requirements of Rule 317.i.

Thanks,

**David D. Andrews, P.E., P.G.**  
Engineering Supervisor - Western Colorado

**State of Colorado**  
**Oil and Gas Conservation Commission**  
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**From:** Schmidt, Andrew [<mailto:Andrew.Schmidt@williams.com>]  
**Sent:** Tuesday, March 15, 2011 4:25 PM  
**To:** Andrews, David; King, Kevin  
**Subject:** RE: PA 442-12 Low top of good bond

Mr. Andrews -

As discussed over the phone today, our squeeze remediation on the PA 442-12 well raised TOC by ~670' which gives us ~530' of cement coverage from top perf to TOC. Our plan is to complete the remaining stage and not remediate to raise TOC further unless we see pressure on the bradenhead which we will be monitoring during the frac and continuously after that.

Attached is the CBL run after the squeeze treatment. If you are unable to receive the attachment, the file is also available on the Williams FTP server.

Thanks  
Andrew

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**From:** Andrews, David [<mailto:David.Andrews@state.co.us>]  
**Sent:** Saturday, January 29, 2011 4:13 PM  
**To:** Schmidt, Andrew  
**Subject:** RE: PA 42-12 Low top of good bond

Andrew,

Your plan is acceptable. Please proceed.

Thanks,

**David D. Andrews, P.E., P.G.**  
Engineering Supervisor - Western Colorado

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**Oil and Gas Conservation Commission**  
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**From:** Schmidt, Andrew [<mailto:Andrew.Schmidt@williams.com>]  
**Sent:** Friday, January 28, 2011 4:27 PM  
**To:** Andrews, David  
**Subject:** FW: PA 42-12 Low top of good bond

Mr. Andrews –

My original email didn't get through as the email must have been above your email size limitation. The CBL was over 8mb, so I will remove that and resend the email. I will resend the CBL as soon as I can get it to a lower resolution. Thanks.

Andrew

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**From:** Schmidt, Andrew  
**Sent:** Friday, January 28, 2011 4:14 PM  
**To:** 'Andrews, David'  
**Subject:** PA 42-12 Low top of good bond

Mr. Andrews-

We have one well on a 15 well pad that has a low TOC: the PA 442-12.

Location:	S12, T7S, R95W
<b>Well:</b>	<b>PA 442-12</b>
API:	05045190220000
CBL TOC (good bond):	6700'
MVRD Top:	5124'
Bradenhead Pressure:	0 psi
Geologist pick for top of gas	6433'

This email is to inform you that:

- This well is a new drill and initial completion operations are scheduled to begin January 31<sup>st</sup>, 2011.
- Cement top on the production casing did not cover the geologist's pick for Mesa Verde top
- Cement top did not cover the geologist's pick for top of gas (KMVGAS)
- Cement top did cover all zones that we have an interest in completing until remediation is carried out. At this time, the shallowest perforation will be located at 6980'.

Surface casing pressure (if any exists) will be bled off. At present, our completion plan with regard to the low TOC is to:

- Re-confirm 0 psi on bradenhead pressure before initiating fracs.
- Monitor surface casing pressure during completion process (pressure gauge during frac job, documenting pressure before and after the frac).
- Proceed with the completion as planned
- Continue to bleed pressure down (if any exists) and shut in surface casing to determine if pressure continues to build up. If so, repeat this process as necessary.
- Check surface casing pressure 90 days after completion operations are finished.
- If pressure persists after these efforts, we will contact you to discuss options.

At this time, we plan to remediate but will not do so until the well is completed up to the perforation at a depth of 6980' and we have discussed the remediation plan with you. Please advise:

- Is this plan acceptable?
- Are there other monitoring efforts we should pursue?

The bond log and completion procedure are attached.

**Andrew Schmidt**

Completions Engineer

Williams Production Co.

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