



02121438

**Krabacher, Jay**

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**From:** Krabacher, Jay  
**Sent:** Tuesday, March 20, 2012 8:27 AM  
**To:** 'Burt, Samuel'  
**Cc:** Tannehill, Julie; Harris, Howard; King, Kevin; Andrews, David; Weems, Mark  
**Subject:** RE: Low TOC notification: RWF 511-36

Tyler:

Your plan sounds completely acceptable. Williams has COGCC concurrence to conduct completions up to 6670'. And, of course, monitor the bradenhead, especially during those completion operations.

Regards,

Jay Krabacher

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**From:** Burt, Samuel [<mailto:Samuel.Burt@Williams.com>]  
**Sent:** Tuesday, March 20, 2012 7:44 AM  
**To:** Krabacher, Jay  
**Cc:** Tannehill, Julie; Harris, Howard; King, Kevin; Andrews, David; Weems, Mark  
**Subject:** RE: Low TOC notification: RWF 511-36

Good Morning Jay,

Although "Mr. Burt" has a nice ring to it, I am afraid it is much too formal and I usually just go by "Tyler"!

I am in complete agreement with you regarding the minimum reasonable depth for completion operations. There is a gap in good bond and TOC could be interpreted several ways.

As I previously indicated, we do not intend to complete any zones above the approximate top perforation depth of 6,670'. This will give us a good 1,462' of cement above the perfs (to the end of consistent good bond, plus the additional 100' of good bond at 4,783'. Given this information, do you consider this to be sufficient zonal isolation and approve of WPX moving forward with completion operations between 6,670' – 8,500'?

Thanks,  
Tyler

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**From:** Krabacher, Jay [<mailto:Jay.Krabacher@state.co.us>]  
**Sent:** Monday, March 19, 2012 5:21 PM  
**To:** Burt, Samuel  
**Cc:** Tannehill, Julie; Harris, Howard; King, Kevin; Andrews, David; Weems, Mark  
**Subject:** RE: Low TOC notification: RWF 511-36

Mr. Burt (do you go by "Tyler" "Sam" or "Samuel"?):

If the decision to conduct completion operations any higher than 5310' were solely up to me, I would not advise. In fact, I would not approve. True, there is "a" TOC at 4783' or so, and the cement appears to be good for 100'. Below that, the CBL does not indicate a good bond until 5208'. The TOC could be interpreted as being at 5110'.

However, due to the CBL not indicating good cement for at least a 200' interval below this top 100' cement segment, I do not feel comfortable approving any completion operations above 5310'.

I have 'cc'd others of the West Colorado COGCC Engineering Staff, and would like to receive/hear their opinions and interpretation. At any rate, you should get final COGCC approval, whatever that will be, before your scheduled start date.

Regards,

Jay Krabacher

**Jay Krabacher**  
 COGCC  
 Petroleum Engineer – EIT III

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**From:** Burt, Samuel [<mailto:Samuel.Burt@Williams.com>]  
**Sent:** Monday, March 19, 2012 7:27 AM  
**To:** King, Kevin; Krabacher, Jay  
**Cc:** Tannehill, Julie; Harris, Howard  
**Subject:** Low TOC notification: RWF 511-36

Kevin / Jay:

This correspondence is to inform you that we have a well in Rulison, (RWF 511-36) on the GV 15-36 pad that has a low TOC. Please find the attached CBL for your reference. Details are as follows:

Sec	Twon	Rng	Well	API	CBL TOC	Top of MVRD	Short*	Top of Gas	Approx. Planned Top Perf	Cmt over Perf
36	6S	94W	RWF 511-36	05-045-20775	4,783	4,877	-106	6,655	6,670	1,887

\*Note: I'm assuming 200' above MVRD for cement coverage

- API 05-045-20775,
- New well with initial completion ops scheduled for Mar 26<sup>th</sup> 2012,
- TOC of 4,783 feet,
- Cement top on production casing does cover geologist's pick for Mesa Verde top, but does not cover the desired 200 feet,
- Cement top does cover all completion zones of interest, as well as geologist's pick for top of gas, and
- No Bradenhead pressure has been observed on this well.

With your permission, I would like to move forward with stimulation operations as scheduled. WPX will monitor casing head pressure during all operations, will go to flush if this pressure exceeds 150 psi, and will shut down immediately if said pressure reaches 200 psi. WPX will continue to monitor Bradenhead pressure throughout well flow back and production, notifying you if any pressure is observed.

Please advise on your level of approval.

Thanks,

**Samuel "Tyler" Burt**

Completions Engineer - Piceance Asset

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