

**From:** [Craig Burger - DNR](#)  
**To:** ["Isac.Porraz@wpxenergy.com"](#); ["Haddock, Reed"](#); ["Neifert-Kraiser, Angela"](#)  
**Cc:** [David Andrews - DNR](#); [Jay Krabacher - DNR](#); [Andrew Stone - DNR](#)  
**Subject:** RE: FW: RWF 332-23 Low TOC (045-20052)  
**Date:** Monday, December 22, 2014 4:54:00 PM  
**Attachments:** [image003.png](#)

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COGCC Doc #2597131

Isac,  
Dave asked me to respond to this low TOC. 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:** Andrews - DNR, David [mailto:[david.andrews@state.co.us](mailto:david.andrews@state.co.us)]  
**Sent:** Monday, December 22, 2014 4:21 PM  
**To:** Craig Burger - DNR  
**Subject:** Fwd: FW: RWF 332-23 Low TOC (045-20052)

----- Forwarded message -----

**From:** Porraz, Isac <[Isac.Porraz@wpxenergy.com](mailto:Isac.Porraz@wpxenergy.com)>  
**Date:** Mon, Dec 22, 2014 at 3:22 PM  
**Subject:** FW: RWF 332-23 Low TOC (045-20052)  
**To:** "Andrews - DNR, David" <[david.andrews@state.co.us](mailto:david.andrews@state.co.us)>  
**Cc:** "Haddock, Reed" <[Reed.Haddock@wpxenergy.com](mailto:Reed.Haddock@wpxenergy.com)>, "Neifert-Kraiser, Angela" <[Angela.Neifert-Kraiser@wpxenergy.com](mailto:Angela.Neifert-Kraiser@wpxenergy.com)>

Dave,

Please see below and advise. Thanks

*Isac J. Porraz*  
Petroleum Engineer



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**From:** Porraz, Isac  
**Sent:** Monday, December 22, 2014 3:12 PM  
**To:** 'Krabacher - DNR, Jay'  
**Cc:** Haddock, Reed  
**Subject:** RWF 332-23 Low TOC (045-20052)

Jay,  
The RWF 332-23 has a low production cement top. Please find the detailed information below:

Sec	TwN	Rng	Well	API	CBL TOC	Top of MVRD	Short*	Top of Gas	Approx. Planned Top Perf	Cmt over Perf	Bradenhead Press Before Completion
23	6S	94W	RWF 332-23	05-045-20052	5,036	4,705	-531	6,141	5,845	809	0
*Note: Assuming 200' above MVRD for cement coverage											

There is adequate coverage above zones of interest, TOG, and planned top perf by 809 ft. We have good/fair to ratty bond short of the MVRD 200 ft guideline, 531ft, with respect to our interpretation. We'd like to proceed with completion on this well, which is scheduled for Friday 12/26/2014. I've attached the CBL for your review. Please advise, thanks.

*Isac J. Porraz*  
Petroleum Engineer



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