

From: [Craig Burger - DNR](#)
To: ["Porriz, Isac"](#)
Cc: ["Salazar, Sandi"](#); ["Neifert-Kraiser, Angela"](#)
Subject: RE: PA 431-27 Low TOC (045-22241)
Date: Tuesday, May 19, 2015 9:46:00 AM
Attachments: [image003.png](#)

COGCC DOC # 2597159

Isac,
WPX can proceed with the planned completions.
Assuming the bradenhead pressure remains negligible, this low TOC can be addressed by providing a written demonstration on a Sundry Notice containing applicable geologic information, bradenhead pressures and annular fluid level measurements 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: Porriz, Isac [mailto:Isac.Porriz@wpxenergy.com]
Sent: Monday, May 18, 2015 3:54 PM
To: Craig Burger - DNR
Cc: Salazar, Sandi; Neifert-Kraiser, Angela
Subject: PA 431-27 Low TOC (045-22241)

Craig,

The PA 431-27 has a low production cement top. Please see the detailed information below:

Sec	Tw	Rng	Well	API	CBL TOC	Top of MVRD	Short*	Top of Gas	Approx. Planned Top Perf	Cmt over Perf	Bradenhead Press Before Completion
27	6S	96W	PA 431-27	05-045-22241	5,222	5,301	-121	6,544	6,560	1,338	0

*Note: Assuming 200' above MVRD for cement coverage

There is good coverage behind the zones of interest, TOG and planned top perf by 1,338ft. We have good cement bond just short of the MVRD 200 ft guideline, 121 ft short, with respect to our interpretation. We'd like to proceed with completion on this well, which is scheduled for stimulation toward the end of next week. I've attached the CBL for your review.

Isac J. Porriz
Petroleum Engineer



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