



STATE OF
COLORADO

Andrews - DNR, David <david.andrews@state.co.us>

B04 04D Squeeze

COGCC Document No. 2055925

Wilkinson, Barry J. <Barry.Wilkinson@encana.com>

Thu, May 15, 2014 at 1:33 PM

To: "Andrews - DNR, David" <david.andrews@state.co.us>

Cc: "Steinke, Mitch" <Mitchell.Steinke@encana.com>, "Henline, Amy C." <Amy.Henline@encana.com>

Dave,

We will proceed as described below. Upon completion we will file the Form 5 - Drilling and Completion report with CBL included.

B04 04D

API# 045-13458

Thanks for the timely response.

Barry Wilkinson

Production Engineer – North Piceance

t 970.285.2928

c 970.319.5750

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From: Andrews - DNR, David [mailto:david.andrews@state.co.us]

Sent: Thursday, May 15, 2014 1:24 PM

To: Wilkinson, Barry J.
Cc: Steinke, Mitch
Subject: Re: B04 04D Squeeze

RE: API No. 045-13458

Barry,

These changes are acceptable to modify the procedure approved on Form 4, Sundry Notice #400608221. COA #2 still applies, "Remedial cement coverage verification by CBL is required." I did not add a COA to the Sundry Notice requiring a new Form 5, Drilling Completion Report, but it is required by rule within 30 days after the work for a change of wellbore configuration (new cement coverage).

A copy of this email will be saved to COGCC's well file. An additional Form 4 for this change is not required.

Please include the well name, well number, and API Number with all email correspondence.

Thanks,

Dave

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



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On Thu, May 15, 2014 at 12:53 PM, Wilkinson, Barry J. <Barry.Wilkinson@encana.com> wrote:

David,

Please consider the following squeeze procedure. The logs indicated a small anomaly @ 4,480' but the pressure test this morning held strong above 4,918'. Because of the potential for leakoff, we've included steps for an additional balanced plug (steps 4-6) in case we don't experience pressure integrity on top of our first plug. With your approval we'd like to begin work tomorrow morning?

We can also submit a Form 4 Sundry Notice if you prefer? Thanks

- 1) RIHW tbg to 5130+/-' KB.
- 2) Mix & pump 35 sx Class G with adds spot, balanced plug across holes @ 5116', 5035', 4982-84', 4960-65'. 35 sx should give 528' plug back to 4602'.
- 3) POOH with tbg to 4550+/-' and reverse tbg clean. Squeeze with 3.5 bbls max volume to 1000 psi staging as necessary. Allow 4hr cure and pressure test above plug. If pressure test positive proceed to step 7, If negative proceed with step 4.
- 4) POOH with tbg to 4500+/-'. DO NOT PULL ABOVE 4490'.
- 5) Mix & pump 25 sx Class G with adds spot balanced plug across hole @ 4480'. 25 sx should give 322' plug back to 4178'.
- 6) POOH with tbg to 4000'+/- KB and reverse tbg clean. Pull 2 jts (60') and squeeze with 3 bbls max volume to 1000 psi staging as necessary. Once squeezed and able to maintain squeeze pressure for 15 min bleed pressure to 500 psi and WOC minimum 24 hrs.
- 7) After 24 hrs drill out squeeze across 4480' and pressure test 1500 psi. If test good proceed with drilling out squeeze across 4960-65', 4982-84', 5035', 5116' testing each area 1500 psi. If leakoff is observed stop drilling and contact Barry Wilkinson or Mitch Steinke.

Barry Wilkinson

Production Engineer – North Piceance

t 970.285.2928

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