

Andrews, David



From: Andrews, David
Sent: Tuesday, May 18, 2010 4:16 PM
To: 'Tannehill, Julie'
Subject: RE: Low TOC : RWF 313-18 (05-045-17624-0000)

Julie,

This procedure is acceptable. Please proceed.

Thanks,

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

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From: Tannehill, Julie [mailto:Julie.Tannehill@Williams.com]
Sent: Tuesday, May 18, 2010 10:33 AM
To: Andrews, David
Subject: RE: Low TOC : RWF 313-18 (05-045-17624-0000)

Dave,

The RWF 313-18 (05045176240000) is the well we talked about over the phone. If you recall our primary cement job was performed, without circulation, and we got TOC to 6900'. We planned to frac the LCAM thru MV2 stages, which we did, and cement squeeze prior to moving further up the hole. Our first cement squeeze only yielded us a new TOC to 6600' (we didn't get circulation during this cement squeeze too), and this was with us attempting to get cement up to MVRD at 5154'. We made the decision to frac the MV3 stage but not the MV4 until we got better cement results. That is what led us to perform the 2nd cement squeeze. Our second cement squeeze was a little better in that we planned for 500' of cement above our squeezes holes, however; we only got 200' of cement above our squeeze holes. Please note: we didn't establish circulation again on this 2nd squeeze as well. I've posted that new CBL on our FTP under the RWF 313-18 folder. The new TOC is at 6350'. Please review.

Our new plan is as follows:

- Move forward with completing MV4 (6972-7212') and MV5 (6834-6910') stages.
- Shut-down and perform a third cement squeeze. Depending on circulation results we're planning on the following:
 - A. If we can establish circulation, pump a foam cement squeeze and try to get TOC to 200' above MVRD
 - B. Else, pump a smaller block squeeze to get 200' to 500' of cement above MV7 (6447-6545') stage

I've also attached a simple wellbore diagram with some of this information summarized. Please advice on our current plan for the RWF 313-18.

Regards,

Julie Tannehill
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5-17-10

045-17624

RWF 313-18

Wellbore diagram

Not to Scale!

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