



Andrews, David

From: Andrews, David  
Sent: Wednesday, September 01, 2010 2:08 PM  
To: 'Caplis, Chris'  
Cc: Conger, Jeremy; Harris, Steven; Harris, Howard  
Subject: RE: Low TOC in Parachute Field

Chris,

~~While it is apparent that you have some cement head from 6000' to 7000' on PA 31-20, the quality appears to be marginal on the VDL. Do you have any future plans for remedial cement on the PA 31-20 well?~~

045-18164

Your forward plan for PA 544-17 is acceptable. Please proceed. Ultimately, cement will be required to a minimum of 200' above top of gas. Submit a Form 4 (Sundry Notice) with your remedial cement procedure and a summary of bradenhead pressure data after completing the lower frac stages (up to a depth of 7855').

Thanks,

David D. Andrews, P.E., P.G.  
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From: Caplis, Chris [mailto:Chris.Caplis@Williams.com]  
Sent: Tuesday, August 24, 2010 10:26 AM  
To: Andrews, David  
Cc: Conger, Jeremy; Harris, Steven; Harris, Howard  
Subject: Low TOC in Parachute Field

Mr. Andrews,

We have a low cement top (TOC) on two wells in the Parachute field. Details are listed below. This email is to inform you that:

- These wells are new drills and initial completion operations are scheduled for Sep. 23<sup>rd</sup>.
- Cement top on the production casing did not cover the geologist's pick for MesaVerde top on either well, however; cement did cover the Top of Gas pick for the PA 31-20 by 207'. The cement top for the PA 544-17 was 229' below Top of Gas pick; however, 1,890' of our gas cylinder was covered with good cement. Therefore, I would stay 200' below TOC with my top perf and plan to complete the remaining 1,790' of the gas cylinder.

Sec	Tw	Rng	Well	API	CBL TOC	Top of MVRD	Short*	Top of Gas	Top Perf	Cmt over Perf

20	6	95	PA 31-20	05-045-18107	6890	5629	1461	7097	n/a	n/a

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

Sec	Twn	Rng	Well	API	CBL TOC	Top of MVRD	Short*	Top of Gas	Top Perf	Cmt over Perf
20	6	95	PA 544-17	05-045-18164	7655	5924	1931	7426	n/a	n/a

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

We are not scheduled to gauge braden heads for a couple of weeks due to the fact we are not schedule to install the well heads until then, due to the rig drilling only a couple of slots away. I will email you the braden head results once we have the well heads installed. In the meantime, I've posted a copy of the CBL on our FTP for your review.

Although our cement top is low, we do have good coverage of cement for completion operations for most, if not all, stages on the PA 31-20 and at least 4-6 stages on the PA 544-17, assuming I stay 200' below TOC. The current plan is to move forward with operations while monitoring the braden head during all frac jobs for both wells. Please advise if this plan is acceptable.

Regards,

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 Completions Engineer  
 Williams Production Co.  
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