045-19704

Andrews, David

From: Andrews, David
Sent: Tuesday, December 06, 2011 4:06 PM
To: 'Caughlin, Bob'; 'bhartman@blm.gov'
Subject: RE: SP 431-14 - Low Cement Top on S.C. Cement

Bob,

Both options work from COGCC's perspective, although the first option would obviously be preferred because of future well control concerns.

Thanks,

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

State of Colorado
Oil and Gas Conservation Commission
707 Wapiti Court, Suite 204
Rifle, Colorado 81650
Office Phone: (970) 625-2497 Ext. 1
Cell Phone: (970) 456-5262
Fax: (970) 625-5682
E-mail: David.Andrews@state.co.us
Website: http://www.colorado.gov/cogcc

From: Caughlin, Bob [mailto:Bob.Caughlin@Williams.com]
Sent: Tuesday, December 06, 2011 4:02 PM
To: Andrews, David; 'bhartman@blm.gov'
Subject: RE: SP 431-14 - Low Cement Top on S.C. Cement

Gentlemen,
I wanted to provide an update on Williams plan to remediate the SP 431-14 well. From the CBL, the top of cement is at approximately 1150'. There looks to be some lesser bond cement/cement stringers up to approximately 1000'. After much discussion, we would like to plan the following:

1) We will plan to drill the rest of the wells on the pad with the drilling rig. There are 4 wells in total on the pad. We have one well finished drilling and another that has only the surface casing set. That means that we have the current well and one other well to drill yet. We will then move the rig off of the pad to provide room for a more cost effective service rig to get on the SP 431-14 well.
2) The service rig will first attempt to run a spaghetti string of tubing down the backside. We are planning to use a 1.9" EUE tubing for this. We may also try to use a 1" tubing string depending on how the 1.9" run goes. We will attempt to reach the top of cement. Depending on how deep we are able to reach, we will decide whether or not to pump cement from there or to pull the tubing string and move to our second option.
3) The second option would be to perforate the surface casing just above the top of any trace of cement, or approximately 950'. We would attempt to circulate water back to surface to clean the hole at as high a rate as possible. After that, we would attempt to circulate cement back to surface. If we are not able to circulate at that depth, we would squeeze cement into those perfs to block them. We would them move up the hole and go through the same procedure.

With either plan, we will be in contact with both of you as we progress to ensure that everyone is in agreement with our remediation plan. Please let me know if you are in agreement with our current plan forward.
Thanks,

Bob

Robert Caughlin
Drilling Superintendent
Williams Production RMT
(970) 589-0673 c

From: Andrews, David [mailto:David.Andrews@state.co.us]
Sent: Monday, November 21, 2011 3:36 PM
To: Caughlin, Bob
Subject: RE: SP 431-14 - Low Cement Top on S.C. Cement

Thanks, Bob.

Dave

From: Caughlin, Bob [mailto:Bob.Caughlin@Williams.com]
Sent: Monday, November 21, 2011 3:23 PM
To: 'bhartman@blm.gov'; Andrews, David
Cc: Foster, Nicole; Abbey, Jarvis; Brady, Scott (Lowell)
Subject: SP 431-14 - Low Cement Top on S.C. Cement

Gentlemen,
This is a follow-up note from our conversations on the low cement top from the SP 431-14 surface casing cement job. The details of the cement job from 11/20/11 are as follows:

Rig up Halliburton cementers and test pumps & lines to 3500 psi. Pumped 20 bbls of H2O ahead of lead slurry of 450 sks, 1071.0 ft3, 190.7 bbls of VersaCem - yield 2.38 cuft/sk - 13.75 gals/sk mix water - mixed at 12.3 ppg, followed by tail cement of 160 sks, 60.1 bbls of VersaCem - yield 2.11 cuft/sks - 11.75 gals/sks mix water - mixed at 12.8 ppg. Dropped plug and displaced with 185 bbls of H20 bumping plug with 750 psi. Bled back 3/4 bbls to the cement truck - float held. Had 85-90% circulation to 130 bbls into the displacement when we lost circulation, continued displacing pressure prior to bumping was 356 psi - expected pressure 493 psi - bumped plug with 790 psi CIP @ 21:00 hrs.

Our estimate based on losing circulation 130 bbls into displacement is approximately 630'. We plan to leave the well for at least 72 hours to allow cement to harden. We will then run a bond log, evaluate the cement top, and decide on a plan for remediation. I will consult both of you for approval before moving ahead. If you need any further information, don't hesitate to ask.
Thanks,
Bob

Robert Caughlin
Drilling Superintendent
Williams Production RMT
(970) 589-0673 c