



RE: HDU 9-41AH Intermediate CBL

1 message

Nelson, Lance <Lance.Nelson@blackhillscorp.com>

Fri, Jul 18, 2014 at 3:29 PM

To: "jay.krabacher@state.co.us" <jay.krabacher@state.co.us>, "Bob Hartman (bhartman@blm.gov)" <bhartman@blm.gov>

Cc: "Edward Fancher (efancher@blm.gov)" <efancher@blm.gov>, "Andrews - DNR, David (david.andrews@state.co.us)" <david.andrews@state.co.us>

Good Afternoon Jay & Bob,

Thank you for taking my earlier calls regarding the intermediate CBL on the HDU 9-41AH. As we discussed, Black Hills unsuccessfully attempted to perform squeeze jobs at 6170' and 2392'. Both areas were found to be tight and we were unable to establish an injection rate or circulation with either. Physically it appears that we have a much better cement job than the CBL displays.

As per our conversations, you've both agreed to allow Black Hills to move forward with the well. Our plan prior to commencing the curve and lateral will be to set 150' balance plug across the upper perms, wait on cement, drill out cement, plug, and lower retainer, set lower balanced plug, wait on cement, drill out cement and bottom plug and proceed to bottom to make sure all clear. Subsequent we'll POOH, make up drilling assemble, and proceed with drill the curve and lateral for the well.

Please feel free to contact me any time with concerns or questions.

Best Regards,

Lance L. Nelson

Asset Team Lead – Piceance Basin

Black Hills Exploration and Production, Inc.

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Lance.Nelson@blackhillscorp.com

From: Nelson, Lance

Sent: Friday, July 18, 2014 1:56 PM

To: 'jay.krabacher@state.co.us'

Subject: FW: HDU 9-41AH Intermediate CBL

Importance: High

FYI

Best Regards,

Lance L. Nelson

From: Nelson, Lance
Sent: Friday, July 18, 2014 1:52 PM
To: 'Andrews - DNR, David (david.andrews@state.co.us)'
Cc: 'Bob Hartman (bhartman@blm.gov)'
Subject: HDU 9-41AH Intermediate CBL
Importance: High

Good Afternoon Dave,

I left a voicemail on your cell phone and tried you on your office line regarding question on the HDU 9-41AH. Please find the HDU 9-41AH CBL for the intermediate casing string attached. Our plan for the past 24 hours was as follows:

1. RIH and set CIBP at $\approx 6178'$, shoot 4 perfs at $\approx 6170'$, set cement retainer and pump 600' squeeze with 15.8# slurry and 15-20% excess.
2. Move up hole to $\approx 2400'$, set CIBP, shoot 6 perfs at $\approx 2392'$, and establish circulation.
 - a. If circulation is freely established, bullhead annular capacity + 20% cement job, drop wiper plug, pump plug to 50' above perfs, and hold pressure for time indicated by Halliburton sample. Attempt to have TOC at least 200' into surface casing; 933' MD/TVD.
 - b. If circulation is restricted RIH with retainer and pump cement job for annular capacity + 20% again attempting to achieve 200' of overlap with the surface casing.

We were unable to establish and injection rate with the lower zone and moved to the shallow. Again, we were neither able to establish circulation down the casing nor through the annulus. And we were unable to establish an injection rate either.

It appears that the cement job is better than the CBL shows. We have several areas with good cement, however our concern with regulatory agencies is that the top of cement is around 2450' with the surface casing shoe at 1133'; formation tops are Mesa Verde at 1033' and Cameo Coal at 3033'.

Bob Hartman with the BLM gave us the green light to move forward setting drilling out top plug and retainers, set balanced plugs across the 2 perfed sections, then drill cement and remaining plug before proceeding with drilling the curve and lateral for the well.

Please contact me ASAP if the COGCC requires anything additional. We will be running in the hole to s

Best Regards,

Lance L. Nelson

Asset Team Lead – Piceance Basin

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