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To: Mike Martin; Brandon Bradbury; DST_JUS_OROGO
Cc: "Angie Stastook"; Shawn Tivadar
Subject: Prairie Provident Resources - ACW-2021-PPR-L-68
Date: July 18, 2023 2:50:15 PM

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Mike/Brandon,

As a follow up and as discussed in our meeting on July 14, 2023 I wanted to provide some further information and present one last request as a follow up to IR#2.

Further to our discussion regarding independent isolation of the Exshaw and Muskwa, once the cement retainer is set, there is no physical way to determine if both zones will have taken cement. However, as stated in our IR#2, we firmly believe that as demonstrated in IR#2 for a variety of reasons that the cement will be squeezed into both zones. For some reason, should cement not get pumped into the Muskwa, there will still be cement in the 114.3 mm frac string, which will act as a barrier between the two zones, creating independent isolation. As there is isolation on the annulus side of the liner with cement and the annulus side of the frac string will be isolated by the cast iron bridge plug and cement cap.

As written in Section 6A of the Well Suspension and Abandonment Guidelines, for Level I wells, there needs to be 15 m of cement put on top of cement retainers. We could adjust this cement amount after performing the retainer squeeze on the Muskwa and Exshaw and put ~100 m of cement on top of the cement retainer set at 3341 m. This would bring the cement top inside the frac string to just below the liner top packer (3240 m). This would be over 500% excess cement required and would create an independent isolation of the inside of the frac string, that would be an extremely good barrier that we would test by confirming with tubing.

Combined with abandoning the liner top with a cast iron bridge plug and cement as per regulations, we believe that this far exceeds the overall abandonment requirements and mandate of the Regulator to promote human safety and protection of the environment.

Best Regards,
-Jeremy

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