

From: [Diana Burn - DNR](#)
To: "Glenn Smith"
Subject: RUNNING CREEK-STATE #3 039-06491
Date: Tuesday, November 17, 2015 3:49:00 PM
Attachments: [image001.png](#)

Good afternoon - here is the summary of your verbal plugging orders for the [RUNNING CREEK-STATE #3](#)

There is a change since we spoke - the Fox Hills bottom is at 2185' (DV tool 2178') - so there will be a requirement to perf at 2235' and pump cement there - 40 sx*

If HIC is isolated then cement should be placed across the HIC.

SB5 for the aquifers

Upper Dawson - - - - -

Lower Dawson 5888 6003 50.4 207 92 16.12 NNT

Denver 5009 5869 296.6 1086 226 80.67 NT

Upper Arapahoe 4412 4987 250.1 1683 1108 68.03 NT

Lower Arapahoe - - - - -

Laramie-Fox Hills 3910 4135 161.2 2185 1960 38.69 NT

The plan from this morning was

- 1) Pump 30 sx into Dsand perfs - this plug needs to be tagged and should be 8280' (100' plug)
- 2) Setting a plug inside the casing for the Niobrara, 15 sx at 7650' (Nio top at 7690' - plug needs to start within 100' of the top)
- 3) * Change to discussed plans - perforate at +/-2235' and pump 40 sx - this plug needs to be tagged
- 4) Perforate at 1200' and pump 75 sx
- 5) Perforate at 260' and pump 40 sx - plug needs to be tagged at 213' or shallower - or plug can be pumped to surface from 260' without being tagged.

Please contact me if there are any questions.

Thank you,
Diana

Diana Burn, P.E.
Eastern Engineering Supervisor



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