

From: [Diana Burn - DNR](#)
To: [Brian T. Murray](#); [Penny Garrison - DNR](#); [Laurel Faber - DNR](#)
Cc: [Venessa Chase](#); [Jason Miller](#); [Trisha L. Williams](#); [Mike W. Hamilton](#); [Evan Stewart](#); [Diane McCoy - DNR](#); [Ally Ota](#); [Dana Strunk](#); [Bob Williamson](#); [Dan Amrine](#); [Kibby Wilson](#)
Subject: [EXTERNAL] :RE: Pyramid 5N API 05-123-48828 Sidetrack request
Date: Friday, September 27, 2019 1:11:24 PM

Please proceed as proposed. Please send the uploaded APD Doc. # to Laurel Faber once it is in upload.

Thanks,
Diana

From: Brian T. Murray [mailto:Brian.Murray@pdce.com]
Sent: Friday, September 27, 2019 10:40 AM
To: Diana Burn - DNR; Penny Garrison - DNR; Stephen Schwarz - DNR; Laurel Faber - DNR
Cc: Venessa Chase; Jason Miller; Trisha L. Williams; Mike W. Hamilton; Evan Stewart; Diane McCoy - DNR; Ally Ota; Dana Strunk; Bob Williamson; Dan Amrine; Kibby Wilson
Subject: Pyramid 5N API 05-123-48828 Sidetrack request

Diana,

We shut down circulating at a MD depth of 3,062' to pick up our agitator. Unfortunately, we don't think we circulated long enough before picking up the agitator and our BHA got packed off with cuttings. We were able to recover our drill string to a depth of 2,702' but not our drilling BHA below that (360' long fish). This morning PDC's Drilling Superintendent notified me that our jars had stopped firing and we made the decision that it was time to throw in the towel and ask permission to sidetrack. I spoke with you at 6:30 AM this morning to update you of our situation and received verbal permission to sidetrack. We will be setting a 500' cement plug with a bottom depth of 2,700' MD and a top depth of 2,200' MD.

- a. Well name and API - **Pyramid 5N / API 05-123-488280000**
- b. Explanation of situation and why you need to sidetrack – **BHA got packed in with cuttings while picking up agitator**
- c. Total measured depth reached (also have TVD) **3,062' MD/ 3,018' TVD**
- d. Casing sizes set and measured depth **9-5/8" @ 1,680' MD/ 1,669' TVD**
- e. Description of fish-including top and bottom. **Drilling BHA and bit, top of fish @ 2,702' and bottom of fish @ 3,062'**
- f. Type of cement you will be using including weight, yield, and sacks. **Neat Class G Cement, 15.8 ppg, 1.15 cuft/sk, 205 sks**
- g. Measured depth and TVD of sidetrack point **2,200' MD/ ' 2,178' TVD (top of 500' cement plug)**
- h. Proposed target formation of sidetrack hole if different than permitted. **Same as permit.**
- i. BHL of sidetrack hole. **Same as original plan.**
- j. Wellbore diagram: **attached**

Thank you and please let me know if you have any questions.

📧 Brian Murray, P.E. | Well Execution Manager | PDC Energy | O: 303-318-6184 | C: 303-601-2755 | Brian.Murray@pdce.com

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