

## Allison, Rick

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**From:** Liz Lindow [llindow@petd.com]  
**Sent:** Friday, February 04, 2011 3:10 PM  
**To:** Allison, Rick  
**Subject:** RE: WILSON 34-34H - COGCC review Form 2A (Doc 400119046) for Petroleum Development Corporation  
**Attachments:** Wilson 34-34H\_Location Drawing.pdf

Hi Rick:

For the above captioned well, the method of mud disposal will be onsite-land farming. The new location drawing is attached as well.

Please let me know if there any other matters.

Have a great weekend!

 Liz Lindow | Regulatory Analyst | PDC Energy | O: 303-860-5800 | C: 303-590-8789 | F: 303-860-5838 | [llindow@petd.com](mailto:llindow@petd.com)

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**From:** Allison, Rick [<mailto:Rick.Allison@state.co.us>]  
**Sent:** Thursday, February 03, 2011 2:25 PM  
**To:** Liz Lindow  
**Subject:** RE: WILSON 34-34H - COGCC review Form 2A (Doc 400119046) for Petroleum Development Corporation

Liz

I still need a mud disposal method. The mud will either be disposed onsite or offsite via land farming, land spreading, at a disposal facility or by some other method. Call me if you have any questions.

Rick

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**From:** Liz Lindow [<mailto:llindow@petd.com>]  
**Sent:** Wednesday, February 02, 2011 9:23 AM  
**To:** Allison, Rick  
**Subject:** RE: WILSON 34-34H - COGCC review Form 2A (Doc 400119046) for Petroleum Development Corporation

Dear Rick – please see my answers below in **CAPS**. Please let me know if you have any further questions.

Best regards,  
Liz Lindow

 Liz Lindow | Regulatory Analyst | PDC Energy | O: 303-860-5800 | C: 303-590-8789 | F: 303-860-5838 | [llindow@petd.com](mailto:llindow@petd.com)

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**From:** Allison, Rick [<mailto:Rick.Allison@state.co.us>]  
**Sent:** Tuesday, February 01, 2011 11:00 AM  
**To:** Liz Lindow  
**Subject:** WILSON 34-34H - COGCC review Form 2A (Doc 400119046) for Petroleum Development Corporation

Hi Liz,

The COGCC is reviewing the Form 2A oil and gas location assessment for the WILSON 34-34H well location in the SESE Sec34 T7N R63W, Weld County, and requests the following changes or clarifications to the information that Petroleum Development Corporation has submitted on the Form 2A:

- 1) **Construction:** Please provide a method of mud disposal. Even though closed loop drilling is being used, the mud disposal must be accounted for on the Form 2A. **A CLOSED LOOP MUD DISPOSAL METHOD WILL BE USED – DO YOU NEED FURTHER INFORMATION THAN THIS?**
- 2) **Location Drawing:** The Form 2A indicates the disturbed area will be 3 acres. However, the Location Drawing shows a disturbed area of 140'x300' which amounts to approximately 1 acre. If so, then it is likely that the Location Drawing does not show all improvements within 400 feet of the location. In particular the Form 2A states that a water well is located 663 feet from the location (as measured from the wellhead). It is possible this well would be located within 400 feet of the edge of the disturbed area. If so please revise the location drawing to show all improvements within 400 feet of a 3 acre disturbance. **OK – I WILL GET A NEW LOCATION DRAWING SHOWING THE EXPANDED DISTURBED AREA**
- 3) **Water Resources:** My review of the Hydrology Map, USGS Topographic Maps and aerial photography does not show a surface water feature located 251 feet from the location. The nearest surface water I identified was the tributary to Crow Creek located 1130 feet southwest of the wellhead. Please clarify the distance to the nearest surface water and the surface water feature to which it was measured. **THE MEASUREMENT WAS TO THE BARROW DITCH WHICH ON THE CURRENT LOCATION DRAWING IS POINT E, LOCATED 251' FEET TO THE SOUTH OF THE WELLHEAD.**
- 4) **Water Resources:** The static water level in the water well with permit 78833 is recorded as 35 feet. Thus I believe the 335 feet stated on the Form 2A is a typographical error. However, note that the screen interval for permit 78833 is 170 to 250 feet. The static water level in this well likely represent a confined aquifer. Due to the proximity of the location to Crow Creek, we should evaluate the potential for shallow ground water. Water well permit 43360 is located approximately 2000 feet east of the location, but at a similar elevation. The log for this well indicates the presence of shallow water bearing units and has a recorded static water level of 17 feet. Please approve me changing the depth to ground water to 17 feet. **I APPROVE OF THIS CHANGE.**
- 5) **Water Resources:** The presence of shallow ground water at the location requires it be designated a sensitive area. Please approve me changing the sensitive area designation from No to Yes. No additional COA will be applied since PDC is using closed loop drilling. **I APPROVE OF THIS CHANGE.**

Please contact me if you have any questions regarding this Form 2A.

Best Regards,

Rick Allison, P.G.  
Oil and Gas Location Assessment Specialist  
Colorado Oil and Gas Conservation Commission  
1120 Lincoln Street, Suite 801  
Denver, CO 80203  
303-894-2100 ext 5102