

STATE OF  
COLORADO

Andrews - DNR, Doug &lt;doug.andrews@state.co.us&gt;

**COGCC Form 2A review of PDC Energy's Brown 5N65W23D location - Doc #400914725**

4 messages

**Andrews - DNR, Doug** <doug.andrews@state.co.us>

Wed, Oct 28, 2015 at 11:51 AM

To: Kelsi Welch &lt;Kelsi.Welch@pdce.com&gt;

Cc: John Noto - DNR &lt;john.noto@state.co.us&gt;, Greg Deranleau - DNR &lt;greg.deranleau@state.co.us&gt;

Kelsi,

I have reviewed the referenced Form 2A Oil & Gas Location Assessment and have the following comments.

1) In the Facilities section you have indicated there will be 16 oil tanks, 2 water tanks, 1 meter house, and no buried produced water vaults. However, the Facility Layout Drawing depicts 20 tanks (it does not break out which are oil and water), 2 meter houses, and 2 water vaults (and there is a BMP that details their installation to prevent impacts to shallow groundwater). Please confirm the Facilities proposed for this oil and gas location and if necessary revise the Facility Layout Drawing to match the count of facilities.

2) In the Soil section you have listed the 20 - Brownsto/Castee complex and 66 - Evanot loam NRCS Soil Map Units. A review of the NRCS Soil Descriptions you provided indicate these are NRCS Soil Units for Moffat County. This proposed location is in Weld County. During my review it appears that this proposed oil and gas location will overlie the 1 - Altvan loam, 0-1% slopes and 8 - Ascalon loam, 0-1% slopes NRCS Soil Map Units. If you agree, please provide me with these two NRCS Soil Map Unit Descriptions and I will swap them out on the Form 2A.

3) In the Water Resources section you have indicated the estimated depth to groundwater is 120 feet based on Land Owner experience. However a review of six nearby water well permits (including the nearest water well) indicate static groundwater in this area is anywhere from 10-25 feet in depth. This is significantly shallower than 120 feet. Therefore, I would like to change the estimated depth to groundwater from 120 feet to 20 feet based on the surrounding water wells.

Overall, the siting of this oil and gas location appears to have been carefully chosen to keep the proposed wells and production facilities out of a Buffer Zone. I would like to thank you, PDC Energy, and the surface owner for working to achieve this. This is exactly the collaboration between industry and surface owners we wish to encourage when siting oil and gas locations.

Please respond to this correspondence by November 28, 2015. If you have any questions, please contact me. Thank you.

***Doug Andrews***

Oil &amp; Gas Location Assessment Specialist - Northeast Area

**COLORADO**Oil & Gas Conservation  
Commission

Department of Natural Resources

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303-894-2100 Ext. 5180

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**Kelsi Welch** <[Kelsi.Welch@pdce.com](mailto:Kelsi.Welch@pdce.com)>

Wed, Oct 28, 2015 at 12:29 PM

To: "Andrews - DNR, Doug" <[doug.andrews@state.co.us](mailto:doug.andrews@state.co.us)>

Cc: John Noto - DNR <[john.noto@state.co.us](mailto:john.noto@state.co.us)>, Greg Deranleau - DNR <[greg.deranleau@state.co.us](mailto:greg.deranleau@state.co.us)>

Hi Doug,

Please see my responses below:

1. The facility layout drawing attached to this 2A does not show detailed production facility equipment counts, as the location is not in a buffer zone and it is not required so I am not sure what you are referring to. Please keep the equipment counts as currently listed on the 2A, it is correct.
2. Please see the new NRCS Soil Map Unit Descriptions for the 1 - Altvan loam, 0-1% slopes and 8 - Ascalon loam, 0-1% slopes attached.
3. Please go ahead and change the estimated depth to ground water from 120 feet to 20 feet based on the surrounding water wells.

Please let me know if you need anything additional on this.

Thank you,

Kelsi

**From:** Andrews - DNR, Doug [<mailto:doug.andrews@state.co.us>]

**Sent:** Wednesday, October 28, 2015 11:51 AM

**To:** Kelsi Welch

**Cc:** John Noto - DNR; Greg Deranleau - DNR

**Subject:** COGCC Form 2A review of PDC Energy's Brown 5N65W23D location - Doc #400914725

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**2 attachments**



**1—Altvan loam, 0 to 1 percent slopes.pdf**

118K



**8—Ascalon loam, 0 to 1 percent slopes.pdf**

120K

**Andrews - DNR, Doug** <doug.andrews@state.co.us>  
To: Kelsi Welch <Kelsi.Welch@pdce.com>

Wed, Oct 28, 2015 at 1:12 PM

Kelsi,

I will remove the Facility Layout Drawing from this Form 2A since it does not reflect what is planned at this proposed oil and gas location. However, your response to keep the equipment count as currently listed does not make sense regarding the buried produced water vault. You have indicated there will be not be any in the Facilities section, yet you have included a BMP that indicates there will be produced water vaults on this location and discuss how they will be installed. Please advise.

*Doug Andrews*

Oil & Gas Location Assessment Specialist - Northeast Area



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**Kelsi Welch** <Kelsi.Welch@pdce.com>  
To: "Andrews - DNR, Doug" <doug.andrews@state.co.us>

Wed, Oct 28, 2015 at 1:18 PM

Hi Doug,

My mistake, I should not having included the BMP regarding produced water tanks as there are none on this location. Could you please remove the BMP?

Thank you,

Kelsi

**From:** Andrews - DNR, Doug [<mailto:doug.andrews@state.co.us>]  
**Sent:** Wednesday, October 28, 2015 1:12 PM  
**To:** Kelsi Welch  
**Subject:** Re: COGCC Form 2A review of PDC Energy's Brown 5N65W23D location - Doc #400914725

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