



## COGCC Form 2A review of PDC Energy's Thornton 18L-HZ Pad - Doc #400559404

5 messages

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

Mon, May 5, 2014 at 11:55 AM

To: Liz Lindow <liz.lindow@pdce.com>

Liz,

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 three Oil Tanks at this location; however, your Facility Layout Drawing shows four Oil Tanks. Please confirm the number of Oil Tanks for this oil and gas location.
- 2) Your Facility Layout Drawing shows one meter on this location. Therefore I will add that to the Facilities section.
- 3) Your Facility Layout Drawing indicates the total disturbed area will be 4.1 acres and the total size after reclamation will be 1.3 acres. However, in the Construction section you have indicated the size of the disturbed area to be 6 acres and the size after interim reclamation to be 1 acre. Please confirm the size of the disturbed area both during construction and after interim reclamation.
- 4) In the Cultural Distance section you have indicated the distance to the nearest Building is 440 feet and the nearest Building Unit is 605 feet. These distances appear to be measured from the proposed oil and gas well. However, your Notification Zone Drawing indicates the distance to the nearest Building is 160 feet and the nearest Building Unit is 223 feet as measured from the proposed Production Facility. This would place this location within the Exception Zone which I will change on the Form 2A. Therefore, please be sure to send an OGLA Notice to the Surface Owner and all Building Unit owners within the Exception Zone Setback.
- 5) You have included a Best Management Practice that indicates the Production facility location was chosen by the farm manager. Is the farm manager also the nearest Building Unit owner located 223 feet away?
- 6) Due to the proximity of the nearest Building Unit (223 feet) from the production facility, please provide me with a BMP that covers the mitigation of visual impacts of the production facility to the nearest Building Unit.
- 7) You have included an attachment certifying compliance with COGCC Rul 305.a. Pre-Application Notifications. I would like to make a suggestion to improve and clarify the language in your certification letter. Because COGCC Rule 303.b.(3)J requires operators to include "evidence that Building Unit owners within the Buffer Zone received the pre-application notice required by Rule 305.a.(2)", your certification letter should explicitly state that PDC certifies all Building Unit owners within the Buffer Zone received the pre-application notice and that proof of their receipt is kept on file with PDC. The letter you have included gives the impression that PDC only sent the pre-application notices, not that they have been received by all Building Unit owners. For future submittals of Form 2A for location within a Buffer Zone, please modify your pre-application notice certification letter to include this language.

8) Because you have indicated that a modular large volume storage tank (MLVT) will be used at this location, please also provide me with the size/volume of the MLVT, the anticipated timeframe it will be on location, and the manufacturer of the MLVT.

9) While you have included several BMPs concerning the use of the MLVT at this location, I would like to add the following Conditions of Approval:

1. MLVTs may only be utilized for the storage of freshwater. E&P wastes, including produced water, treated E&P wastes, and flowback from hydraulic fracturing operations, are not allowed.
2. MLVTs shall be constructed and operated in accordance with a design certified and sealed by a Colorado Licensed Professional Engineer.
3. COGCC Rules 604.a. and 605.a.(2,3,5,6,7, and 8), as applicable to tank setbacks at the time of installation shall apply to the siting of MLVTs.
4. All MLVT liner seams shall be welded at the liner manufacturers facility; field welded liners shall not be used. Liners shall not be reused.

Please reply to this correspondence with the requested information by June 5, 2014. If you have any questions, please feel free to contact me. Thank you.

-

*Doug Andrews*

Oil & Gas Location Assessment Specialist - Northeast Area



1120 Lincoln St., Suite 801  
Denver, CO 80203  
[doug.andrews@state.co.us](mailto:doug.andrews@state.co.us)  
303-894-2100 Ext. 5180

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

Mon, May 5, 2014 at 12:46 PM

Please see my answers below in **RED**. #s 6 and 9 are not answered because I need to discuss with my team first.

Thank you,

Liz

Liz Lindow | Regulatory Analyst (Progressive Consulting) | Consultant for PDC Energy | O: 303-831-3974 | F: 303-860-5838 | [liz.lindow@pdce.com](mailto:liz.lindow@pdce.com)

**From:** Andrews - DNR, Doug [mailto:doug.andrews@state.co.us]  
**Sent:** Monday, May 05, 2014 11:56 AM  
**To:** Liz Lindow  
**Subject:** COGCC Form 2A review of PDC Energy's Thornton 18L-HZ Pad - Doc #400559404

Liz,

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 three Oil Tanks at this location; however, your Facility Layout Drawing shows four Oil Tanks. Please confirm the number of Oil Tanks for this oil and gas location. **There will be 4 oil tanks.**
- 2) Your Facility Layout Drawing shows one meter on this location. Therefore I will add that to the Facilities section. **ok**
- 3) Your Facility Layout Drawing indicates the total disturbed area will be 4.1 acres and the total size after reclamation will be 1.3 acres. However, in the Construction section you have indicated the size of the disturbed area to be 6 acres and the size after interim reclamation to be 1 acre. Please confirm the size of the disturbed area both during construction and after interim reclamation. **Please change the total disturbed area to be 4.1 acres and the reclamation to be 1.3 acres.**
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- 5) You have included a Best Management Practice that indicates the Production facility location was chosen by the farm manager. Is the farm manager also the nearest Building Unit owner located 223 feet away? **YES**
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9) While you have included several BMPs concerning the use of the MLVT at this location, I would like to add the following Conditions of Approval: **I must consult with my team first as a few of these points from the COGCC draft policy on MLVTs are still in discussion with the COGCC and have not been finalized.**

1. MLVTs may only be utilized for the storage of freshwater. E&P wastes, including produced water, treated E&P wastes, and flowback from hydraulic fracturing operations, are not allowed.
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4. All MLVT liner seams shall be welded at the liner manufacturers facility; field welded liners shall not be used. Liners shall not be reused.

Please reply to this correspondence with the requested information by June 5, 2014. If you have any questions, please feel free to contact me. Thank you.

—

*Doug Andrews*

Oil & Gas Location Assessment Specialist - Northeast Area



1120 Lincoln St., Suite 801

Denver, CO 80203

doug.andrews@state.co.us

303-894-2100 Ext. 5180

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

Wed, May 7, 2014 at 12:53 PM

Hello Doug,

Per #6 below: The building unit 223' feet away is the farm manager who picked where he wanted the tank battery and did not want any extra visual mitigation measures.

Per #9: These proposed COAs are concerning as a group of operators that previously met with you and Greg to discuss the industry's comments on the MLVT Draft Policy. Randall also sent a follow up email on 4/18/14 to Greg to suggest a caveat to Rule 605.a.(2) to eliminate the need for a Property Line Waiver for MLVTs that are truly temporary and will be onsite for 120 days or less. As stated in the comments, this MLVT will be onsite for 30 days or less and we feel that this scenario constitutes a caveat to that particular rule. As such, the COAs (#s 2-4) you are requesting do not reflect those discussions over the suggested changes to the policy. Since the actual policy seems in the works and has not yet been finalized, we respectfully request that the COAs not be added to the permits as this requirement is a departure from locations with MLVTs that OGLA as recently approved. Your consideration of this request is greatly appreciated.

Thank you

Liz Lindow

 Liz Lindow | Regulatory Analyst (Progressive Consulting) | Consultant for PDC Energy | O: 303-831-3974 | F: 303-860-5838 | [liz.lindow@pdce.com](mailto:liz.lindow@pdce.com)

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**From:** Liz Lindow  
**Sent:** Monday, May 05, 2014 12:46 PM  
**To:** 'Andrews - DNR, Doug'  
**Subject:** RE: COGCC Form 2A review of PDC Energy's Thornton 18L-HZ Pad - Doc #400559404

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*Doug Andrews*

Oil & Gas Location Assessment Specialist - Northeast Area



**COLORADO**  
Oil & Gas Conservation  
Commission  
Department of Natural Resources

1120 Lincoln St., Suite 801

Denver, CO 80203

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

Fri, May 30, 2014 at 2:08 PM

Liz,

I have modified my COA #2 -4 to reflect the COGCC's recently revised (May 29, 2014) MLVT policy which has been approved by Director Lepore. If these are still unacceptable to PDC, please provide me BMPs that will address the concerns these COAs cover.

2. The MLVT shall be constructed and operated in accordance with a design package certified and sealed by a Licensed Professional Engineer either in Colorado or the state where the MLVT was designed or manufactured.
3. COGCC Rules 605.a.(3,5,6,7, and 8), as applicable to tank setbacks at the time of installation shall apply to the siting of this MLVT.
4. All MLVT liner seams shall be welded and tested in accordance with applicable ASTM international standards. Any repairs to liners shall be made using acceptable practices and applicable standards.

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

Wed, Jun 4, 2014 at 8:38 AM

These are approved!

Liz Lindow, Regulatory Analyst

PDC Energy

1775 Sherman Street, Suite 3000, Denver, CO 80203

Office: [303-831-3974](tel:303-831-3974) | Fax: [303-860-5838](tel:303-860-5838) | Cell: [303-590-8789](tel:303-590-8789) | [liz.lindow@pdce.com](mailto:liz.lindow@pdce.com)

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

**Sent:** Friday, May 30, 2014 2:08 PM

**To:** Liz Lindow

**Subject:** Re: COGCC Form 2A review of PDC Energy's Thornton 18L-HZ Pad - Doc #400559404

[Quoted text hidden]