

STATE OF  
COLORADO

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

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**COGCC Form 2A review of Extraction Oil & Gas' Thornton 8-P Pad location - Doc #400639432**

6 messages

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**Andrews - DNR, Doug** <doug.andrews@state.co.us>  
To: Regulatory members <regulatory@petro-fs.com>

Wed, Aug 20, 2014 at 9:26 AM

Jeff &amp; Ann,

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

1) In the Water Resources section you have indicated the nearest downgradient surface water feature is an Irrigation Canal located approximately 324 feet east of the proposed oil and gas location. However, the Location Drawing and Hydrology Map indicate an irrigation ditch running directly through the production facility area of this proposed oil and gas location. Who's irrigation ditch is that and what are Extraction's plans for that irrigation ditch? Are the the Surface Owner and the owner of that irrigation ditch aware of those plans?

2) Due to the proximity of surface water features to this proposed oil and gas location, I will change the Sensitive Area designation from NO to YES.

Please respond to this correspondence by September 20, 2014. 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

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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**Ann Stephens** <astephens@petro-fs.com>  
To: "Andrews - DNR, Doug" <doug.andrews@state.co.us>  
Cc: Jennifer Grosshans <jgrosshans@petro-fs.com>, Jeffrey Annable <jannable@petro-fs.com>

Fri, Aug 22, 2014 at 2:52 PM

Doug,

Just wanted to get back to you before too much time goes by on this. We are awaiting guidance from the operator on how they are going to address the irrigation ditch issue with the surface/ditch owner(s) and tertiary containment. We will provide you with this information as soon as available. Many thanks.

Respectfully,

**Ann Stephens**

**Regulatory Manager**

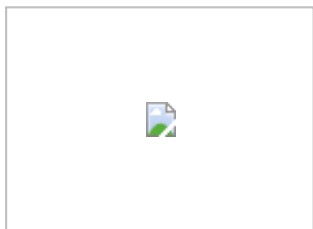
Petroleum Field Services, LLC

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

**Sent:** Wednesday, August 20, 2014 9:27 AM

**To:** Regulatory members

**Subject:** COGCC Form 2A review of Extraction Oil & Gas' Thornton 8-P Pad location - Doc #400639432

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**Ann Stephens** <[astephens@petro-fs.com](mailto:astephens@petro-fs.com)>

Fri, Aug 29, 2014 at 1:38 PM

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

Cc: Jennifer Grosshans <[jgrosshans@petro-fs.com](mailto:jgrosshans@petro-fs.com)>, Jeffrey Annable <[jannable@petro-fs.com](mailto:jannable@petro-fs.com)>

Hi Doug,

In response to your inquiry regarding the irrigation canal depicted on this site, attached please find a revised Facility Layout the operator would like to propose so that the facilities will parallel the ditch rather than build over it, with an earthen berm on the southwest side as tertiary containment. The operator was meeting and consulting with the surface owner and tenant yesterday regarding the change. Operator will ensure that the new layout remains within the disturbance area and outside of 500' from the building unit owner to the southeast. Operator will provide an as-built of the facility once completed.

We would like to know if we can submit this revised facility layout without incurring any delay in 2A approval. I will forward revised Location Drawing, Hydrology and Reference Maps with the revised disturbance area as soon as available. Or, if more appropriate for time sake, we can submit the revised Facility Layout showing the tanks running from the northwest to the southeast, keeping the depiction of disturbance area as originally submitted.

Please advise at your earliest convenience. Many thanks for all your assistance.

Respectfully,

**Ann Stephens**

**Regulatory Manager**

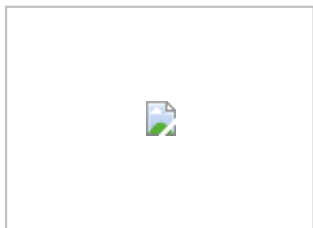
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**Sent:** Wednesday, August 20, 2014 9:27 AM  
**To:** Regulatory members  
**Subject:** COGCC Form 2A review of Extraction Oil & Gas' Thornton 8-P Pad location - Doc #400639432

Jeff & Ann,

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 **Thornton 8-P Pad 7N66W8 Facility Layout.pdf**  
151K

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**Andrews - DNR, Doug** <doug.andrews@state.co.us> Fri, Aug 29, 2014 at 2:06 PM  
To: Ann Stephens <astephens@petro-fs.com>  
Cc: Jennifer Grosshans <jgrosshans@petro-fs.com>, Jeffrey Annable <jannable@petro-fs.com>

Ann,

I like this proposed change better as it eliminates concerns with the production facility crossing the irrigation canal. I also appreciate the addition of tertiary containment via an earthen berm on the southwest side of the production facility while committing to keeping the production facilities greater than 500 feet from the nearest Building Unit. I will accept this revised Facility Layout Drawing. However, it does show 6 Vapor Recovery Units that are not listed in the Facilities section of the 2A. Also the Facilities section lists 6 gas compressors but none are shown on this Facility Layout Drawing. Please confirm the number of VRUs and compressors proposed for this location.

Please send me the revised Location Drawing and Hydrology Map at your earliest convenience. This location is on Cropland so no Reference Area Map is required. Finally, now that the Public Comment period has ended, please send me a letter certifying Extraction's compliance with COGCC Rule 306.e.

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**Ann Stephens** <astephens@petro-fs.com> Fri, Aug 29, 2014 at 2:22 PM  
To: "Andrews - DNR, Doug" <doug.andrews@state.co.us>  
Cc: Jennifer Grosshans <jgrosshans@petro-fs.com>, Jeffrey Annable <jannable@petro-fs.com>

Doug,

Thank you. I will get you the revised Location and Hydrology maps as soon as available.

Please change the 6 gas compressors in the Facilities section of the permit to read 6 Vapor Recovery Units.

Lastly, Jeff will be emailing you the 306.e. certification letter.

Once again, thank you very much. Hope you have a great, long weekend!

Respectfully,

**Ann Stephens**

**Regulatory Manager**

Petroleum Field Services, LLC

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

**Sent:** Friday, August 29, 2014 2:07 PM  
**To:** Ann Stephens  
**Cc:** Jennifer Grosshans; Jeffrey Annable  
**Subject:** Re: COGCC Form 2A review of Extraction Oil & Gas' Thornton 8-P Pad location - Doc #400639432

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**Ann Stephens** <astephens@petro-fs.com> Fri, Sep 5, 2014 at 9:49 AM  
To: "Andrews - DNR, Doug" <doug.andrews@state.co.us>  
Cc: Jennifer Grosshans <jgrosshans@petro-fs.com>, Jeffrey Annable <jannable@petro-fs.com>

Morning Doug,

Attached please find the revised Location Drawing and Hydrology Map for the Thornton site that depict the revised disturbance area. Please let me know you have everything you need to release the permit from hold and push through the approval process. Many thanks for your patience and guidance on this project.

Respectfully,

**Ann Stephens**

**Regulatory Manager**

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**Subject:** Re: COGCC Form 2A review of Extraction Oil & Gas' Thornton 8-P Pad location - Doc #400639432

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**2 attachments**



**Thornton 8-P Pad 7N66W8 Location Drawing.pdf**

641K



**Thornton 8-P Pad 7N66W8 Hydrology Map.pdf**

630K