



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

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**COGCC Form 2A review of Mallard Exploration's Long Tail East & Log Tail West Pad locations - Doc #401510351 & 401510350**

3 messages

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

Wed, Feb 7, 2018 at 2:36 PM

To: Erin Mathews &lt;emathews@mallardexploration.com&gt;, Regulatory Team &lt;regulatory@ascentgeomatics.com&gt;

Erin &amp; Justin,

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

1) In the Water Resources section of both Form 2As Mallard has indicated the estimated depth to groundwater is 207 feet, based on the nearest water well (Permit #129773). I do not think 207 feet is representative of how shallow groundwater may be in this area for the following reasons. Water well Permit #129773 is screened from 222 feet to 302 feet below ground surface. Mallard's proposed Pochard West location is approximately 2,000 feet to the east, is at a very similar topographic ground elevation, and has an estimated depth to groundwater of only 70 feet based on proximity of nearby wetlands. As the ground surface elevation between the Pochard West pad and these two Long Tail Pads is not very different and there are also mapped wetlands near the two Long Tail Pads, I do not think an estimated depth to groundwater of 207 feet is indicative of how shallow groundwater may be at these two proposed Oil & Gas Locations. Due to the lack of water wells that are screened at shallower depths than Permit #129773, I proposed changing the estimated depth to groundwater to 75 feet for the same basis as given for the Pochard West Pad location. Please let me know if you concur.

2) The Location Drawing for the Long Tail West pad depicts a wetland/low area immediately northeast of the proposed disturbance area. In the Water Resources section Mallard has indicated that is the nearest downgradient surface water feature. However, the Hydrology Map does not depict this wetland/low area. It indicates the only surface water feature within 1,000 feet is a wetland 650 feet to the southeast. These two attachments should agree with each other. I'll leave it to you to decide whether the Location Drawing or the Hydrology Map is correct concerning the wetland/low area immediately to the northeast and request you revise the other attachment so that they do not contradict with each other.

Please respond to this correspondence by March 7, 2018. If you have any questions, please contact me. Thank you.

***Doug Andrews***

Oil &amp; Gas Location Assessment Specialist - Northeast Colorado



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**Justin Garrett** <jgarrett@ascentgeomatics.com>  
To: "Andrews - DNR, Doug" <doug.andrews@state.co.us>

Wed, Feb 7, 2018 at 3:19 PM

Doug –

Thank you for taking the time to go over this location with me.

We will get you a revised Hydrology Map adding this feature by the end of this week.

Also, yes, please change the depth to groundwater to 75’.

Here is a screenshot of the aerial without that layer covered so that you could see what we were looking at:



Also, thank you for the feedback on Mallard’s stormwater BMP. I will pass along to them that it was appreciated.

And lastly, thank you for looking at the Harvey sundries.

**Justin Garrett**

**Regulatory Analyst**

**Ascent Geomatics Solutions** (Formerly PFS)

**7535 Hilltop Circle**

**Denver, Colorado 80221**

**Office: 303-928-7128**

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**From:** Andrews - DNR, Doug [mailto:[doug.andrews@state.co.us](mailto:doug.andrews@state.co.us)]  
**Sent:** Wednesday, February 07, 2018 2:36 PM  
**To:** Erin Mathews; Regulatory  
**Subject:** COGCC Form 2A review of Mallard Exploration's Long Tail East & Log Tail West Pad locations - Doc #401510351 & 401510350

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**Justin Garrett** <jgarrett@ascentgeomatics.com>  
To: "Andrews - DNR, Doug" <doug.andrews@state.co.us>  
Cc: Ann Feldman <afeldman@ascentgeomatics.com>

Thu, Feb 8, 2018 at 3:08 PM

Doug –

Here is a revised Hydrology Map that should be consistent with the Location Drawing and submitted Form 2.

Please let me know if there is anything else you need.

Thank you

**Justin Garrett**

**Regulatory Analyst**

**Ascent Geomatics Solutions** (Formerly PFS)

7535 Hilltop Circle

Denver, Colorado 80221

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**From:** Justin Garrett

**Sent:** Wednesday, February 07, 2018 3:19 PM

**To:** 'Andrews - DNR, Doug'

**Subject:** RE: COGCC Form 2A review of Mallard Exploration's Long Tail East & Log Tail West Pad locations - Doc #401510351 & 401510350

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 **Long Tail West PAD 7N61W3 Hydrology Map.pdf**  
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