

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

COGCC Form 2A review of Mallard Exploration's Green Teal Pad - Doc #401398646

2 messages

Andrews - DNR, Doug <doug.andrews@state.co.us>
To: Regulatory Team <regulatory@ascentgeomatics.com>

Tue, Oct 10, 2017 at 11:23 AM

Jeff,

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

- 1) Will you provide some additional pipeline description. Specifically a description of the pipelines that will run from the separators to the storage tanks.
- 2) During my review it appears the southeast portion of the proposed location will overlap onto the 54-Platner loam, 0-3 percent slopes NRCS Map Unit. Please provide me with this Map Unit Description and I will add it to the list of attachments.
- 3) In the Water Resources section you have indicated the estimated depth to groundwater is 28 feet which is taken from water well Permit #1730. A review of that water well's permit indicates a listed depth to water of 74 feet. I'm curious how an estimated depth to groundwater at the Green Teal Pad of 28 feet was estimated based on this. The difference in elevation between the Green Teal pad and this water well appears to be 20 feet at most.
- 4) In the Water Resources section you have indicated this proposed Oil & Gas Location is within a floodplain. During my review I was unable to identify a mapped floodplain for this area. If this was erroneously marked as YES, please let me know and I will correct it. If it is indeed within a floodplain, please provide BMPs that address the requirements of Rule 603.h.
- 5) The Multi-Well Plan includes a second page that appears to be for wells on a different location (Cavalry Farms). I have attached it for your review. If this is in error, please send me a corrected Multi-Well Plan.

Please respond to this correspondence by November 10, 2017. If you have any questions, please contact me. Thank you.

Doug Andrews

Oil & Gas Location Assessment Specialist - Northeast Colorado



303.894.2100 Ext. 5180

1120 Lincoln St., Suite 801, Denver, CO 80203

doug.andrews@state.co.us | <http://cogcc.state.co.us/>**Green Teal Pad Multi-Well Plan.pdf**

1061K

Jeffrey Annable <jannable@ascentgeomatics.com>

Wed, Oct 11, 2017 at 9:16 AM

To: "Andrews - DNR, Doug" <doug.andrews@state.co.us>, Regulatory <regulatory@ascentgeomatics.com>

Hey Doug,

Please see my responses below.

Thanks,

Jeff Annable

Regulatory Analyst

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Denver, CO 80221

TBPLS Firm Registration No. 10194000

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

Sent: Tuesday, October 10, 2017 11:23 AM

To: Regulatory

Subject: COGCC Form 2A review of Mallard Exploration's Green Teal Pad - Doc #401398646

Jeff,

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

1) Will you provide some additional pipeline description. Specifically a description of the pipelines that will run from the separators to the storage tanks. **Please use the following pipeline description:**

3" welded steel flowlines from wellheads to separators carrying oil, gas and water.

3" welded steel gas supply line from compressors to wellheads.

2" welded steel pipe from separators to the VRT/tanks

2) During my review it appears the southeast portion of the proposed location will overlap onto the 54-Platner loam, 0-3 percent slopes NRCS Map Unit. Please provide me with this Map Unit Description and I will add it to the list of attachments. **My apologies Doug, I totally missed this one. Attached is the NRCS Map Unit for 54.**

3) In the Water Resources section you have indicated the estimated depth to groundwater is 28 feet which is taken from water well Permit #1730. A review of that water well's permit indicates a listed depth to water of 74 feet. I'm curious how an estimated depth to groundwater at the Green Teal Pad of 28 feet was estimated based on this. The difference in elevation between the Green Teal pad and this water well appears to be 20 feet at most. **Please change the depth to ground water to 50'.**

4) In the Water Resources section you have indicated this proposed Oil & Gas Location is within a floodplain. During my review I was unable to identify a mapped floodplain for this area. If this was erroneously marked as YES, please let me know and I will correct it. If it is indeed within a floodplain, please provide BMPs that address the requirements of Rule 603.h. **Please change to NO.**

5) The Multi-Well Plan includes a second page that appears to be for wells on a different location (Cavalry Farms). I have attached it for your review. If this is in error, please send me a corrected Multi-Well Plan. **Attached is the updated MWP.**

Please respond to this correspondence by November 10, 2017. If you have any questions, please contact me. Thank you.

Doug Andrews

Oil & Gas Location Assessment Specialist - Northeast Colorado



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2 attachments



54 N_SOIL_Platner_loam_0_to_3_percent_slopes--Weld_County_Colorado_Northern_Part.pdf
119K



Green Teal Pad 8N60W34 Multi-Well Plan.pdf
437K