

**STATE OF
COLORADO****Treitz - DNR, Rebecca <rebecca.treitz@state.co.us>**

Mojito doc no 401656263

6 messages

Treitz - DNR, Rebecca <rebecca.treitz@state.co.us>
To: Bonnie Lamond <blamond@extractionog.com>

Mon, Sep 24, 2018 at 5:00 PM

Bonnie,

COGCC is in the process of reviewing the Form 2A for Mojito location (doc no 401656263). In order to complete our review, please address the following:

1. Based on the Location Drawing, the concrete irrigation ditch will be part of the disturbed area. Is the irrigation ditch going to be removed or should the disturbed area be to the east of the ditch? What engineering controls will be used to protect the irrigation ditch?
2. The Facility Layout drawing and the facility list on the 2A have a couple discrepancies, which may be clarified with a more detailed Facility Layout drawing. Please label the tanks to distinguish between water and oil on the Facility Layout drawing. Facility list has 4 ECDs while only 2 are labeled on the Facility Layout drawing. Please confirm the number of ECDs on the location. The gas lift skid and gas scrubber are not labeled on the Facility Layout drawing.
3. Under the Cultural Distance Section of the 2A, the distance from the nearest well and production to a public road and the production equipment to above ground utility do not appear to match the Location or Facility Layout drawings. Please confirm these distances.
4. Under the BMP section;
 - a. BMP #13, please provide site specific noise mitigation;
 - b. Please provide BMPs for protection of shallow groundwater and surface water; and
 - c. Please provide a BMP for 604.c.(2).M.- Fencing.
5. Please provide a hydrology map depicting all surface water features in the area, including man-made ditches and ponds.
6. The Waste Management section has commercial disposal, but the waste management plan has land application and beneficial reuse. Please provide a waste management plan regarding all possible waste streams from drilling and completion activities and provide a comment for the Operator section of the 2A.

Let me know if you have questions or would like to discuss any of the above further.

Thank you,

Rebecca

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Rebecca Treitz
Oil and Gas Location Assessment Specialist
P 303.894.2100 x5173 | F 303.894.2109 |
1120 Lincoln Street, Suite 801, Denver, CO 80203
Rebecca.Treitz@state.co.us | www.colorado.gov/cogcc

Bonnie Lamond <blamond@extractionog.com>
To: "Treitz - DNR, Rebecca" <rebecca.treitz@state.co.us>

Tue, Sep 25, 2018 at 10:25 AM

Hi Rebecca,

Can you clarify what sort of BMPs you're looking for in regards to shallow groundwater? I'd like to make sure I'm on the same page when circling back with civil.

Thanks,

Bonnie

From: Treitz - DNR, Rebecca <rebecca.treitz@state.co.us>
Sent: Monday, September 24, 2018 5:00 PM
To: Bonnie Lamond <blamond@extractionog.com>
Subject: Mojito doc no 401656263

[Quoted text hidden]

Treitz - DNR, Rebecca <rebecca.treitz@state.co.us>
To: Bonnie Lamond <blamond@extractionog.com>

Tue, Sep 25, 2018 at 10:38 AM

Bonnie,
Will there be a liner under production? or any tertiary containment?

Thanks,
Rebecca

[Quoted text hidden]

Bonnie Lamond <blamond@extractionog.com>
To: "Treitz - DNR, Rebecca" <rebecca.treitz@state.co.us>

Wed, Oct 24, 2018 at 12:05 PM

Hi Rebecca,

Please see my response to your comments below in blue. Please let me know if you have any other questions.

Thank you,

Bonnie Lamond

Extraction Oil & Gas

370 17th Street, Suite 5300

Denver, CO 80202



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From: Treitz - DNR, Rebecca <rebecca.treitz@state.co.us>
Sent: Monday, September 24, 2018 5:00 PM
To: Bonnie Lamond <blamond@extractionog.com>
Subject: Mojito doc no 401656263

Bonnie,

COGCC is in the process of reviewing the Form 2A for Mojito location (doc no 401656263). In order to complete our review, please address the following:

1. Based on the Location Drawing, the concrete irrigation ditch will be part of the disturbed area. Is the irrigation ditch going to be removed or should the disturbed area be to the east of the ditch? What engineering controls will be used to protect the irrigation ditch? We will not be removing the ditch. For this reason, we shaved the northwest of the pad to avoid the ditch altogether—updated location drawing is attached. We will have our standard stormwater BMP (listed below 4.b) and our grading plan will insure the pad be downgradient of the ditch.
2. The Facility Layout drawing and the facility list on the 2A have a couple discrepancies, which may be clarified with a more detailed Facility Layout drawing. Please label the tanks to distinguish between water and oil on the Facility Layout drawing. Facility list has 4 ECDs while only 2 are labeled on the Facility Layout drawing. Please confirm the number of ECDs on the location. The gas lift skid and gas scrubber are not labeled on the Facility Layout drawing. There should only be 2 ECDs. The facility layout drawing is updated to include the gas lift skid and scrubber.
3. Under the Cultural Distance Section of the 2A, the distance from the nearest well and production to a public road and the production equipment to above ground utility do not appear to match the Location or Facility Layout drawings. Please confirm these distances. The 2A should be changed to match the location drawing attached:

Nearest well to public road = 1213' and above ground utility = 766'

Nearest production equipment to public road = 1051' and above ground utility = 828' (the lights currently on location will be removed)
4. Under the BMP section;
 - a. BMP #13, please provide site specific noise mitigation; **604.c.(2)A**. Sound walls and/or hay bales will be used during drilling and completion operations. Sound walls will be installed along the south side of the pad.
 - b. Please provide BMPs for protection of shallow groundwater and surface water; and

Implement and maintain BMPs to control stormwater runoff in a manner that minimizes erosion, transport of sediment offsite, and site degradation. Co-locate flowlines and/or gathering lines whenever feasible, and mitigate any erosion problems that arise due to the construction of any pipeline(s). Location will be covered under Extraction Oil & Gas's field wide permit, permit number COR03M013.
 - c. Please provide a BMP for 604.c.(2).M.- Fencing. **604.c(2)M**. The location will be adequately fenced to restrict access by unauthorized persons
5. Please provide a hydrology map depicting all surface water features in the area, including man-made ditches and ponds. Attached.
6. The Waste Management section has commercial disposal, but the waste management plan has land application and beneficial reuse. Please provide a waste management plan regarding all possible waste streams from drilling and completion activities and provide a comment for the Operator section of the 2A. Please add the following comment: Waste from drilling and completions activities will be commercially disposed . Drill cuttings may be transported to a COGCC approved land application site. Please refer to the attached Waste Management Plan for greater detail.

Let me know if you have questions or would like to discuss any of the above further.

Thank you,

Rebecca

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Rebecca Treitz

Oil and Gas Location Assessment Specialist

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3 attachments**Mojito Hydrology.pdf**

897K

**EXT04N68W03-01(MOJITO) - 2A FAC LAY DRAW.PDF**

2606K

**EXT04N68W03-01(MOJITO) - 2A LOCATION DRAWING .pdf**

2165K

Treitz - DNR, Rebecca <rebecca.treitz@state.co.us>
To: Bonnie Lamond <blamond@extractionog.com>

Fri, Oct 26, 2018 at 1:02 PM

Bonnie,

Thank you for the information. I have updated the facility list based on the new drawing, so compressors not 8 and added the 2 meter buildings. I also changed the disturbed area based on the new drawing.

Please provide a BMP regarding any additional berming or containment for stormwater, especially for erosion control during construction. After construction, is there a stormwater protocol for timing of inspections? Please also provide a BMP for odor mitigation from the oil based mud, a BMP for the MLVTs meeting COGCC policy, and timing for when gas well go to a sales line or if the wells will be shut in if no sales line is available.

Please provide a 306.e. certification letter.

Thank you,

Rebecca

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2 attachments**image001.jpg**

3K

**image001.jpg**

3K

Bonnie Lamond <blamond@extractionog.com>
To: "Treitz - DNR, Rebecca" <rebecca.treitz@state.co.us>

Tue, Oct 30, 2018 at 3:04 PM

Hi Rebecca,

I have added additional comments in blue below. Please let me know if there is any other comments or questions you may have.

Thank you,

Bonnie

From: Treitz - DNR, Rebecca <rebecca.treitz@state.co.us>

Sent: Friday, October 26, 2018 1:03 PM

To: Bonnie Lamond <blamond@extractionog.com>

Subject: Re: Mojito doc no 401656263

Bonnie,

Thank you for the information. I have updated the facility list based on the new drawing, so compressors not 8 and added the 2 meter buildings. I also changed the disturbed area based on the new drawing. [OK](#)

Please provide a BMP regarding any additional berming or containment for stormwater, especially for erosion control during construction. After construction, is there a stormwater protocol for timing of inspections?

This BMP should be on the 2A if it's not already on it: The location will be built to control stormwater runoff in a manner that minimizes erosion, transport of sediment offsite, and site degradation, including installation of a diversion ditch, berm with sediment traps, and wattles where necessary. Flowline and/or gathering lines will be co-located when feasible and Extraction will mitigate any erosion problems that arise due to the construction of any pipeline(s). The subject location will be covered under Extraction Oil & Gas's field-wide stormwater permit, permit number COR03M013.

Please also provide a BMP for odor mitigation from the oil based mud

805. Oil & gas facilities and equipment shall be operated in such a manner that odors do not constitute a nuisance or hazard to public welfare. Operator will utilize advanced oil based mud systems which target the reduction of aromatics.

a BMP for the MLVTs meeting COGCC policy,

There is a statement on the comments section. Going forward, I can put this under the BMP section.

and timing for when gas well go to a sales line or if the wells will be shut in if no sales line is available.

BMP #14 addresses this.

Please provide a 306.e. certification letter. [Attached](#).

Thank you,

Rebecca

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306 e Certification Letter.pdf

11/1/2018

State.co.us Executive Branch Mail - Mojito doc no 401656263



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