



Noto - DNR, John <john.noto@state.co.us>

## Cascade Petroleum, State 16-11S-55W-01H, Form 2A Document #400352308

2 messages

**Deranleau - DNR, Greg** <greg.deranleau@state.co.us>

Wed, Dec 26, 2012 at 11:43 AM

To: jdean@cascadepetroleum.com, Sam Schuessler <sschuessler@cascadepetroleum.com>

Cc: John Noto - DNR <john.noto@state.co.us>

Jason and Sam,

The COGCC is reviewing the above-referenced Form 2A. In order to complete our review process, we need you to address the following:

1. Per COGCC Rule 303.d.(3)C. if no visible improvements are located within 400' of the proposed Oil and Gas Location, it must be so noted on the Form 2A or the location drawing. At your direction, I can add the following notation to the Form: "There are no visible improvements within 400' of the proposed Oil and Gas Location disturbance."
2. The proposed disturbance is listed as 1 acre prior to interim reclamation. Please confirm that 1 acre is sufficient for all drilling, completion and production equipment and pits (if necessary) for a horizontal well. If additional acreage will be needed, please indicate the actual disturbance size and I will make the change to the Form 2A.
3. Your Form 2A does not indicate that pits will be constructed, nor does it specify that closed loop drilling systems will be employed. Please indicate which method will be utilized and how many drilling pits—if any—will be constructed.
4. Please clarify the information regarding Mud Disposal. The Form 2A indicates that mud will be disposed onsite using land spreading (application), however, it is not clear if the 0.5 acre of interim reclamation will be sufficient for that purpose. It is also not clear that water-based bentonitic mud would be a beneficial amendment to rangeland. Please note, all E&P waste must be managed in accordance with Rule 907; drilling fluids are specifically addressed in Rule 907.d.
5. The Form 2A indicates current and future land use will be Non-Crop Land (rangeland). Therefore, in accordance with Rule 303.d.(3)F.ii., Reference Area information is required to be submitted. At this time, a Reference Area will need to be selected and a map provided; within 12 months reference area photos will need to be submitted, via a Form 4 Sundry Notice.
6. According to the NRCS information on the COGCC maps, the proposed Oil and Gas Location is mapped on the Ft. Collins Loam in addition to the soil type indicated. Please permit me to add the additional Map Unit Description.

Conditions of Approval:

COGCC requests your concurrence on the following BMPs or COAs.

1. According to the access road map, the road will cross the intermittent drainage for Long Branch Creek. Please provide a site specific best management practice (BMP) for the drainage crossing that indicates that flow will not be impeded and how the drainage will be protected from stormwater run off and sedimentation.
2. For this wildcat horizontal well, baseline groundwater monitoring will be required. Please indicate if you are participating in the COGA baseline monitoring program. Otherwise, COGCC will attach the following Condition of Approval: "Operator will conduct initial baseline and follow-up groundwater testing in accordance with the provisions set forth by COGCC in its December 10, 2012 proposed Rule 609, or Rule 609 as adopted. The referenced proposal can be found on the COGCC website: [http://dnrdensterling/RR\\_HF2012/Groundwater/StaffRevisedProposedRule60912072012.pdf](http://dnrdensterling/RR_HF2012/Groundwater/StaffRevisedProposedRule60912072012.pdf)."

Please respond in writing (e-mail) to this request. If you have any questions regarding these requests, please do

not hesitate to contact me or you may contact John Noto at extension 5168, as he will be taking over Oil and Gas Location Assessment reviews for this area.

Thank you.

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Greg Deranleau  
Oil and Gas Location Supervisor  
Colorado Oil and Gas Conservation Commission  
303-894-2100 ext. 5153

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**Sam Schuessler** <sschuessler@cascadepetroleum.com>

Thu, Jan 3, 2013 at 4:42 PM

To: "Deranleau - DNR, Greg" <greg.deranleau@state.co.us>, "Noto - DNR, John (john.noto@state.co.us)" <john.noto@state.co.us>

Cc: Bryan Bugg <bbugg@cascadepetroleum.com>, Jason Dean <jdean@cascadepetroleum.com>

John, Greg,

In response to the items to be addressed regarding the review of Form 2A for the State 16-11S-55W-01H;

- 1) Please add the suggested notation to the form.
- 2) The proposed disturbance area will be roughly 2.5 acres, not 1. Post-reclamation will be roughly 1 acre. Please change.
- 3) One (1) drilling pit will be constructed and a closed loop drilling system will not be employed. Please change.
- 4) Mud-disposal will be done in an "evaporate and bury" fashion, not land spreading. Please change.
- 5) I have attached a Reference Area map. Photos will be taken within 12 months when ground is clear and growing season has returned.
- 6) Please add additional Map Unit Description.

In response to the BMPs/COAs to be addressed for the same location;

- 1) Cascade plans to cross the ephemeral stream in such a way as to create as little disturbance to surface soils and vegetation as possible, and in keeping with the guidance of the Army Corps of Engineers if this stream should be deemed to fall within their jurisdiction.
- 2) Cascade is not presently a participant in the COGA program. Please add proposed COA.

Sam Schuessler

Engineering Tech

Cascade Petroleum LLC

[sschuessler@cascadepetroleum.com](mailto:sschuessler@cascadepetroleum.com)

(303) 407-6512

**From:** Deranleau - DNR, Greg [<mailto:greg.deranleau@state.co.us>]

**Sent:** Wednesday, December 26, 2012 11:44 AM

**To:** Jason Dean; Sam Schuessler

**Cc:** John Noto - DNR

**Subject:** Cascade Petroleum, State 16-11S-55W-01H, Form 2A Document #400352308

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