

STATE OF
COLORADO

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

COGCC Form 2A review of Noble Energy's LC11-16 MULTI location - Doc #4009002923 messages

Andrews - DNR, Doug <doug.andrews@state.co.us>
To: jkajiwara@nobleenergyinc.com

Wed, Jan 13, 2016 at 9:14 AM

Jan,

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

- 1) In the Construction section you have indicated the size of the disturbed area during construction will be 34.6 acres and 23 acres after interim reclamation. This seems excessive given the number of wells and production facilities listed in the Facilities section. To better understand the large area of disturbed ground proposed, please provide a scaled Facility Layout Drawing that depicts all wells and facilities listed on the Form 2A.
- 2) In the Water Resources section you have indicated the nearest downgradient surface water feature is a man made pond 331 feet from this Oil & Gas Location. However, a review of your Hydrology Map and the USGS topographic map of this area indicates that man made pond is at an elevation of approximately 4,950 feet which places it upgradient of this proposed Oil & Gas Location. It appears the nearest downgradient surface feature appears is Igo Creek located approximately 1,300 feet to the northeast. Therefore, I would like to change the distance to the nearest downgradient surface water feature to reflect this.
- 3) In the Water Resources section you have indicated the nearest water well is 276 feet from this Oil & Gas Location. At this distance it should appear on your Location Drawing, yet no water well is shown. Please confirm the permit # and distance to the nearest water well. If there is a water well within 500 feet of this Oil & Gas Location, please revise the Location Drawing to depict it.
- 4) In the Water Resources section you have indicated the estimated depth to groundwater is 682 feet. This appears to be based on water well permit #290513. However, that water well is cased from 1,215 to 1,515 feet below ground surface in the upper Pierre aquifer. Given this screened interval, it is not likely representative of the uppermost groundwater table in this area. A review of nearby water well permit #290413 indicates groundwater in this area is as shallow as 60 feet below ground surface. Therefore, I would like to change the estimated depth to groundwater from 682 feet to 60 feet.
- 5) You have indicated this Oil & Gas Location is a Sensitive Area due to the nearby man made ponds. However, because those ponds are upgradient of the location and groundwater is not shallow I would like to change this designation to NO.

Please respond to this correspondence by February 13, 2016. If you have any questions, please contact me. Thank you.

Doug Andrews

Oil & 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
303-894-2100 Ext. 5180

Jan Kajiwara <Jan.Kajiwara@nblenergy.com>
To: "Andrews - DNR, Doug" <doug.andrews@state.co.us>
Cc: Sherri Robbins <Sherri.Robbins@nblenergy.com>

Wed, Jan 13, 2016 at 10:33 AM

Thank you Doug for your email. I will respond to your concerns as soon as possible.

Jan

Jan Kajiwara
Regulatory Analyst III
EHSR

1625 Broadway Suite 2200
Direct: [303.228.4092](tel:303.228.4092) | Cell: [720.351.7600](tel:720.351.7600)
jan.kajiwara@nblenergy.com |



From: Andrews - DNR, Doug [mailto:doug.andrews@state.co.us]
Sent: Wednesday, January 13, 2016 9:14 AM
To: Jan Kajiwara
Subject: EXTERNAL: COGCC Form 2A review of Noble Energy's LC11-16 MULTI location - Doc #400900292

[Quoted text hidden]

Jan Kajiwara <Jan.Kajiwara@nblenergy.com>
To: "Andrews - DNR, Doug" <doug.andrews@state.co.us>
Cc: Sherri Robbins <Sherri.Robbins@nblenergy.com>

Wed, Feb 3, 2016 at 3:38 PM

Doug,

Please see comments below in red. Thank you and let me know if you need anything else.

Jan

Jan Kajiwarra

Regulatory Analyst III

EHSR

1625 Broadway Suite 2200
Direct: 303.228.4092 | Cell: 720.351.7600
jan.kajiwarra@nblenergy.com |



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

Sent: Wednesday, January 13, 2016 9:14 AM

To: Jan Kajiwarra

Subject: EXTERNAL: COGCC Form 2A review of Noble Energy's LC11-16 MULTI location - Doc #400900292

Jan,

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

1) In the Construction section you have indicated the size of the disturbed area during construction will be 34.6 acres and 23 acres after interim reclamation. This seems excessive given the number of wells and production facilities listed in the Facilities section. To better understand the large area of disturbed ground proposed, please provide a scaled Facility Layout Drawing that depicts all wells and facilities listed on the Form 2A. **Attached is the information that Noble supplied to the BLM in their Master Development Plan (Grading Plan for Pad and Facility).**

2) In the Water Resources section you have indicated the nearest downgradient surface water feature is a man made pond 331 feet from this Oil & Gas Location. However, a review of your Hydrology Map and the USGS topographic map of this area indicates that man made pond is at an elevation of approximately 4,950 feet which places it upgradient of this proposed Oil & Gas Location. It appears the nearest downgradient surface feature appears is Igo Creek located approximately 1,300 feet to the northeast. Therefore, I would like to change the distance to the nearest downgradient surface water feature to reflect this. **This is ok to change.**

3) In the Water Resources section you have indicated the nearest water well is 276 feet from this Oil & Gas Location. At this distance it should appear on your Location Drawing, yet no water well is shown. Please confirm the permit # and distance to the nearest water well. If there is a water well within 500 feet of this Oil & Gas Location, please revise the Location Drawing to depict it. **Attached is the revised Location Drawing.**

4) In the Water Resources section you have indicated the estimated depth to groundwater is 682 feet. This appears to be based on water well permit #290513. However, that water well is cased from 1,215 to 1,515 feet below ground surface in the upper Pierre aquifer. Given this screened interval, it is not likely representative of the uppermost groundwater table in this area. A review of nearby water well permit #290413 indicates groundwater in this area is as shallow as 60 feet below ground surface. Therefore, I would like to change the estimated depth to groundwater from 682 feet to 60 feet. **This is ok to change.**

5) You have indicated this Oil & Gas Location is a Sensitive Area due to the nearby man made ponds. However, because those ponds are upgradient of the location and groundwater is not shallow I would like to change this designation to NO. **This is ok to change.**

Please respond to this correspondence by February 13, 2016. If you have any questions, please contact me. Thank you.

Doug Andrews

Oil & Gas Location Assessment Specialist - Northeast Area



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3 attachments



Grading Plan_LC11-15 Econode (2015-09-01).pdf
798K



Grading Plan_LC11-16 (2015-09-24).pdf
1886K



Revised Location Drawing_LC11-16 (2016-02-01).pdf
871K