

**STATE OF
COLORADO**

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

Form 2A review for Kerr-McGee's BADDING TANK BATTERY 20-26 location - Doc #4004665313 messages

Andrews - DNR, Doug <doug.andrews@state.co.us>
To: "Kucera, Lauren" <Lauren.Kucera@anadarko.com>

Thu, Oct 3, 2013 at 9:03 AM

Lauren,

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

- 1) In the BMP section of the Form 2A you have a Tank Specification BMP that indicates Condensate storage tanks will be used. However, this equipment is not included in the Facilities section of the Form 2A. Condensate Tanks are in the list of common production equipment in the Facilities section. Please provide me the anticipated number of Condensate Tanks and I will add them to the Facilities section of the Form 2A.
- 2) In the Cultural Distance Information section of the Form 2A you have indicated the distance to the nearest Building Unit is 5,280 feet. A review of aerial photographs indicates the nearest building unit (a house) is approximately 1,350 feet west of the oil and gas location. Therefore I will change the distance to the nearest Building Unit to 1,350 feet on the Form 2A.
- 3) In the Cultural Distance Information section of the Form 2A you have indicated the distance to the nearest Public Road is 2,540 feet. A review of your Location Drawing indicates the nearest public road (Grant Street) is approximately 401 feet west of the oil and gas location. Therefore I will change the distance to the nearest Public Road to 401 feet on the Form 2A.
- 4) In the Water Resources section of the Form 2A you have given the basis for determining the depth to groundwater as the base of the Fox Hills Aquifer and have listed an estimated depth to groundwater of 1,251 feet. The purpose in providing an estimated depth to groundwater is to determine if shallow groundwater is present in the area of the oil and gas location. Should a spill or release of fluids occur at this location it is helpful to know if shallow groundwater is present which could be impacted. It is very unlikely that a surface release or spill at this location will impact the Fox Hills Aquifer located a thousand feet deep. Your basis should be how you determined how shallow groundwater is at the oil and gas location. During my review, several water wells in the area of oil and gas location lists a depth to groundwater ranging from 450 to 540 feet with the nearest water well having a groundwater depth of 475 feet. Therefore, I will change the estimated depth to groundwater on the Form 2A from 1,251 feet to 475 feet and modify the statement concerning the basis for depth to groundwater to what I have used above.
- 5) During my review, I noted that there are several domestic water wells within 1/4-mile of the oil and gas location including the nearest water well (Permit #64534-F) 782 feet from the oil and gas location. Based on this, I will change the Sensitive Area designation from NO to YES on the Form 2A.

If you have any questions, please feel free to contact me. Thank you.

—

Doug Andrews

Oil & Gas Location Assessment Specialist - Northeast Area
Colorado Oil & Gas Conservation Commission
1120 Lincoln St., Suite 801
Denver, CO 80203

doug.andrews@state.co.us
303-894-2100 Ext. 5180

Andrews - DNR, Doug <doug.andrews@state.co.us>
To: "Kucera, Lauren" <Lauren.Kucera@anadarko.com>

Thu, Oct 3, 2013 at 12:03 PM

Lauren,

I made an error in my comment concerning nearby domestic water wells. Per the COGCC's definition of Sensitive Area, a location is a sensitive area when domestic water wells are within 1/8-mile, not 1/4-mile. Therefore, please disregard my Comment #5 and I will leave the Sensitive Area designation as NO on the Form 2A. Thank you.

[Quoted text hidden]

Kucera, Lauren <Lauren.Kucera@anadarko.com>
To: "Andrews - DNR, Doug" <doug.andrews@state.co.us>

Thu, Oct 10, 2013 at 11:13 AM

Hi Doug,

1.) Please replace the BMP comments with the following verbiage. This refers to the oil tanks that will be used on location.

a. "604c.(2).R. Tank Specifications: Storage tanks will be designed, constructed and maintained in accordance with National Fire Protection Association (NFPA) Code 30 (2008 version). KMG will maintain written records to verify proper design, construction and maintenance. All records will be available for inspection by the Director."

2.) Thank you for changing the distance.

3.) According to our Surface Landman, Grant St. is not an existing street. It may be a proposed street. The nearest existing public road is WCR 16 located 2,540' away from the location.

4.) Thank you for changing this. We have updated our method of determining depth to groundwater as well as our sensitive area determination.

5.) Thank you for changing this.

Please let me know if you have any other questions.

Thank you,

Lauren Kucera

Regulatory Affairs – Rockies GWA
Anadarko Petroleum Corporation
(720) 929-6107 - Direct

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

Sent: Thursday, October 03, 2013 9:04 AM

To: Kucera, Lauren

Subject: Form 2A review for Kerr-McGee's BADDING TANK BATTERY 20-26 location - Doc #400466531

Lauren,

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

1) In the BMP section of the Form 2A you have a Tank Specification BMP that indicates Condensate storage tanks will be used. However, this equipment is not included in the Facilities section of the Form 2A. Condensate Tanks are in the list of common production equipment in the Facilities section. Please provide me the anticipated number of Condensate Tanks and I will add them to the Facilities section of the Form 2A.

2) In the Cultural Distance Information section of the Form 2A you have indicated the distance to the nearest Building Unit is 5,280 feet. A review of aerial photographs indicates the nearest building unit (a house) is approximately 1,350 feet west of the oil and gas location. Therefore I will change the distance to the nearest Building Unit to 1,350 feet on the Form 2A.

3) In the Cultural Distance Information section of the Form 2A you have indicated the distance to the nearest Public Road is 2,540 feet. A review of your Location Drawing indicates the nearest public road (Grant Street) is approximately 401 feet west of the oil and gas location. Therefore I will change the distance to the nearest Public Road to 401 feet on the Form 2A.

4) In the Water Resources section of the Form 2A you have given the basis for determining the depth to groundwater as the base of the Fox Hills Aquifer and have listed an estimated depth to groundwater of 1,251 feet. The purpose in providing an estimated depth to groundwater is to determine if shallow groundwater is present in the area of the oil and gas location. Should a spill or release of fluids occur at this location it is helpful to know if shallow groundwater is present which could be impacted. It is very unlikely that a surface release or spill at this location will impact the Fox Hills Aquifer located a thousand feet deep. Your basis should be how you determined how shallow groundwater is at the oil and gas location. During my review, several water wells in the area of oil and gas location lists a depth to groundwater ranging from 450 to 540 feet with the nearest water well having a groundwater depth of 475 feet. Therefore, I will change the estimated depth to groundwater on the Form 2A from 1,251 feet to 475 feet and modify the statement concerning the basis for depth to groundwater to what I have used above.

5) During my review, I noted that there are several domestic water wells within 1/4-mile of the

oil and gas location including the nearest water well (Permit #64534-F) 782 feet from the oil and gas location. Based on this, I will change the Sensitive Area designation from NO to YES on the Form 2A.

If you have any questions, please feel free to contact me. Thank you.

--

Doug Andrews

Oil & Gas Location Assessment Specialist - Northeast Area

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