

Kubeczko, Dave

From: Kubeczko, Dave
Sent: Wednesday, March 24, 2010 3:01 PM
To: Kubeczko, Dave
Subject: FW: Antero Resources, Valley Farms J Pad, Valley Farms J1, NWNW Sec 13 T6S R92W, Garfield County, Form 2A (#400039706) Review

Scan No 2033006 CORRESPONDENCE 2A#400039706

From: Hannah Knopping [mailto:hknopping@anteroresources.com]
Sent: Wednesday, March 17, 2010 9:00 AM
To: Kubeczko, Dave
Subject: RE: Antero Resources, Valley Farms J Pad, Valley Farms J1, NWNW Sec 13 T6S R92W, Garfield County, Form 2A (#400039706) Review

Dave,

Yes, please make the changes listed below concerning Sections 9 and 14 of the subject Form 2A. Antero does concur with the COA's identified below.

Please let me know if you need anything else.

Thanks!

Hannah Knopping
Permit Representative
Antero Resources Corporation
1625 17th Street
Denver, CO 80202
Office: (303) 357-6412
Cell: (720) 985-6647

From: Kubeczko, Dave [mailto:Dave.Kubeczko@state.co.us]
Sent: Tuesday, March 16, 2010 3:16 PM
To: Hannah Knopping
Subject: Antero Resources, Valley Farms J Pad, Valley Farms J1, NWNW Sec 13 T6S R92W, Garfield County, Form 2A (#400039706) Review

Hannah,

I have been reviewing the Valley Farms J Pad, Valley Farms J1 **Form 2A** (#400039706). COGCC requests the following clarifications regarding the data Antero has submitted on or attached to the Form 2A prior to passing the Oil and Gas Location Assessment (OGLA).

1. **Cultural (Section 9):** The Form 2A indicates distance to nearest railroad to be 5280 feet. During COGCC's review, the distance to the nearest railroad is approximately 4691 feet to the north. I can make the changes if you send an email with this request.
2. **Water Resources (Section 14):** Form 2A indicates the distance to the nearest surface water is 349 feet. COGCC guidelines require designating all locations within close proximity to surface water (i.e., less than 500 feet) a **sensitive area**. The following conditions of approval (COAs) will apply:

COA 4 - Location is in a sensitive area because of proximity to surface water; therefore, operator must ensure 110 percent secondary containment for any volume of fluids contained at well site during drilling and completion operations.

COA 5 - Operator must implement best management practices to contain any unintentional release of fluids.

3. **Water Resources (Section 14):** Form 2A indicates the depth to groundwater to be 36 feet bgs for a well located 1553 feet from the proposed well. COGCC's review indicates there is a water well (Permit No. 125341-A-McPherson, domestic well) located 1650 feet to the north, with a total depth of 101 feet bgs, a depth to groundwater of 6 feet bgs, and a pumping rate of 4 gpm. I believe this well is more indicative of groundwater conditions at this location. I can make the change if you send me an email with this request. COGCC guidelines require designating all locations with shallow groundwater (i.e., less than 20 feet bgs) a **sensitive area**. The following condition of approval (COA) will apply:

COA 7 - Location may be in a sensitive area because of shallow groundwater (6' bgs); therefore either a lined drilling pit or closed loop system must be implemented.

COGCC would appreciate your concurrence with attaching these COAs to the Form 2A permit prior to passing the OGLA review. The other issue also needs to be addressed. If you have any questions, please do not hesitate to call me at (970) 625-2497 x5 (office) or (970) 309-2514 (cell), or email. Thanks.

Dave

David A. Kubeczko, PG
Oil and Gas Location Assessment Specialist

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