

## Kubeczko, Dave

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**From:** Kubeczko, Dave  
**Sent:** Tuesday, July 13, 2010 4:13 PM  
**To:** Kubeczko, Dave  
**Subject:** FW: Antero Resources, Fenno Ranch A Pad, NESW Sec 31 T5S R91W, Garfield County, Form 2A (#400072242) Review

Scan No 2033250      CORRESPONDENCE      2A#400072242

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**From:** Hannah Knopping [mailto:hknopping@anteroresources.com]  
**Sent:** Tuesday, June 29, 2010 5:14 PM  
**To:** Kubeczko, Dave  
**Subject:** RE: Antero Resources, Fenno Ranch A Pad, NESW Sec 31 T5S R91W, Garfield County, Form 2A (#400072242) Review

Dave,

Antero does concur with the conditions of approval listed in your email below concerning the **Fenno Ranch A Pad**.

#2: Yes, please make the change concerning the water well as you detailed below.

#3: Location Drawing: It was my understanding that the location drawing rules indicate to show all visible improvements within the 400 foot boundary, which I interpreted as existing improvements. We usually do not know exactly where our pipeline will be until a little bit later in the planning stage. For instance, this is a wildcat well so we will be flaring this well initially to determine productivity before moving forward with pipeline infrastructure.

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

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**From:** Kubeczko, Dave [mailto:Dave.Kubeczko@state.co.us]  
**Sent:** Monday, June 28, 2010 4:46 PM  
**To:** Hannah Knopping  
**Subject:** Antero Resources, Fenno Ranch A Pad, NESW Sec 31 T5S R91W, Garfield County, Form 2A (#400072242) Review

Hannah,

I have been reviewing the Fenno Ranch A Pad **Form 2A** (#400072242). COGCC requests the following clarifications regarding the data Antero Resources has submitted on or attached to the Form 2A prior to passing the Oil and Gas Location Assessment (OGLA).

1. **Water Resources (Section 14):** Form 2A indicates the distance to the nearest surface water is 455 feet. COGCC guidelines require designating all locations within close proximity to surface water 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.
2. **Water Resources (Section 14):** Form 2A indicates the depth to groundwater to be 140 feet bgs for a well located 580 feet from the proposed well pad. COGCC's review indicates there is a water well (Permit No. 132395-A-Pretti, domestic well) located approximately 583 feet to the southwest, with a total depth of 120 feet bgs, a depth to groundwater of 28 feet bgs, and a pumping rate of 12 gpm. I believe this is the well you located. I can make the changes if you send me an email with this request. COGCC guidelines require designating all locations with close proximity to a domestic water well (less than 660 feet) a *sensitive area*. The following conditions of approval (COAs) will apply:
  - COA 7** - Location may be in a sensitive area because of close proximity to a domestic water well; therefore either a lined drilling pit or closed loop system must be implemented.
  - COA 8** - Location may be in a sensitive area because of close proximity to a domestic water well; therefore production pits must be lined.
3. **Rule 303.d.(3).C.:** The Location Drawing does not show the proposed locations of the gas, oil, and water pipelines. This drawing should show any improvements, particularly the proposed location of these pipelines.

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 prior to permit approval. If you have any questions, please do not hesitate to call me at (970) 309-2514 (cell), or email. Thanks.

Dave

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

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