

## Kubeczko, Dave

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**From:** Kubeczko, Dave  
**Sent:** Thursday, December 09, 2010 9:08 AM  
**To:** Kubeczko, Dave  
**Subject:** FW: Antero Resources, McLin C Pad, NESE Sec 13 T6S R92W, Garfield County, Form 2A (#400077143) Review  
**Attachments:** McLin C Pad\_Consent to BMPs (Signed).pdf

Scan No 2033532

CDOW CORRESPONDENCE

2A#400077143

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**From:** Hannah Knopping [mailto:hknopping@anteroresources.com]  
**Sent:** Thursday, October 14, 2010 10:51 AM  
**To:** Kubeczko, Dave  
**Cc:** Warren, Michael  
**Subject:** RE: Antero Resources, McLin C Pad, NESE Sec 13 T6S R92W, Garfield County, Form 2A (#400077143) Review

Hi Dave and Michael,

I have been out of town and I know that Ashlie responded to your request for concurrence to the COA's for the McLin C Pad, however I wasn't sure if I had provided you with the surface owner's signed consent to our proposed BMP's. In case I did not do this already, please find it attached.

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:** Ashlie Mihalcin  
**Sent:** Wednesday, October 13, 2010 2:01 PM  
**To:** Hannah Knopping  
**Subject:** FW: Antero Resources, McLin C Pad, NESE Sec 13 T6S R92W, Garfield County, Form 2A (#400077143) Review

FYI

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**From:** Ashlie Mihalcin **On Behalf Of** Hannah Knopping  
**Sent:** Thursday, October 07, 2010 2:41 PM  
**To:** 'Kubeczko, Dave'  
**Subject:** RE: Antero Resources, McLin C Pad, NESE Sec 13 T6S R92W, Garfield County, Form 2A (#400077143) Review

Hi Dave,

Antero has reviewed the COA's listed below identified for the **McLin C Pad** and does concur with them.

Let me know if you need anything else. Thanks!

*Ashlie Mihalcin*  
Permit Representative  
Antero Resources Corporation  
1625 17th Street  
Denver, CO 80202  
Office: (303) 357-7323  
Cell: (303) 945-0577

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**From:** Kubeczko, Dave [mailto:Dave.Kubeczko@state.co.us]  
**Sent:** Tuesday, October 05, 2010 3:26 PM  
**To:** Hannah Knopping  
**Subject:** Antero Resources, McLin C Pad, NESE Sec 13 T6S R92W, Garfield County, Form 2A (#400077143) Review

Hannah,

I have been reviewing the McLin C Pad **Form 2A** (#400077143). 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) review.

1. **Water Resources (Section 14):** Form 2A indicates the distance to the nearest surface water is 250 feet. COGCC's rules state that the distance to the nearest surface water should reflect intermittent (this includes ephemeral streams, irrigation ditches, drainages, abandoned gravel pits), as well as, perennial streams. COGCC's review indicates there is also another perennial stream (Divide Creek) approximately 1463 feet of the proposed well pad. 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 its 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; including, but not limited to, construction of a berm or diversion dike, diversion/collection trenches within and/or outside of berms/dikes, site grading, or other comparable measures (i.e., BMPs associated with stormwater management) sufficiently protective of nearby surface water. If fluids are conveyed via pipeline, operator must implement best management practices to contain any unintentional release of fluids.
  - 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 45 feet bgs for a well located 493 feet from the proposed well pad. COGCC guidelines require designating all locations with close proximity of a domestic water well (1/8 mile or 660 feet) and shallow groundwater a **sensitive area** (which Antero has already indicated on the Form 2A). The following conditions of approval (COA) will apply:
  - COA 7** - Location is in a sensitive area because of proximity to a domestic water well and potential for shallow groundwater; therefore either a lined drilling pit or closed loop system must be implemented.
  - COA 8** - Location is in a sensitive area because of proximity to a domestic water well and potential for shallow groundwater; therefore production pits must be lined.
3. **General 317B:** The following conditions of approval (COAs) will also apply:
  - COA 6** - Reserve pit (if constructed) must be lined or a closed loop system (which has already been indicated by Antero on the Form 2A) must be implemented during drilling; however, Antero will be using a closed loop drilling system, therefore, a reserve pit will not be constructed.
  - COA 25** - Flowback to tanks only. Operator must submit a secondary and tertiary containment plan via sundry notice Form 4 for the tanks to Dave Kubeczko. Operator must obtain approval of the plan prior to fracing flowback operations.
  - COA 38** - The moisture content of any drill cuttings in a cuttings pit, trench, or pile shall be as low as practicable to prevent accumulation of liquids greater than de minimis amounts. At the time of closure, the drill cuttings must also meet the applicable standards of table 910-1.

**COA 39** - No portion of any pit that will be used to hold liquids shall be constructed on fill material, unless the pit and fill slope are designed and certified by a professional engineer, subject to review and approval by the director prior to construction of the pit. The construction and lining of the pit shall be supervised by a professional engineer or their agent. The entire base of the pit must be in cut.

**COA 40** - The nearby hillside to the west must be monitored for any day-lighting of drilling fluids throughout the drilling of the surface casing interval.

**COA 44** - The access road will be constructed as to not allow any sediment to migrate from the access road to nearby surface water (McLin Ditch) or any drainages leading to other nearby surface waters (Ward-Reynolds Ditch).

**COA 46** - The location is in an area of high run off/run-on potential from the proposed pad area to the west and north; additionally, the surface soils and materials are very fine-grained; therefore the pad shall be constructed as quickly as possible and appropriate BMPs need to be in place both during, after well pad construction completion, as well as during all drilling and well completion operations. Standard stormwater BMPs must be implemented at this location to insure compliance with CDPHE and COGCC requirements and to prevent any stormwater run-on and /or stormwater runoff.

COGCC would appreciate your concurrence with attaching these COAs (items 1 and 2) to the Form 2A permit prior to passing the OGLA review. 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**

Colorado Oil & Gas Conservation Commission  
Northwest Area Office  
707 Wapiti Court, Suite 204  
Rifle, CO 81650  
Phone: (970) 625-2497x5  
FAX: (970) 625-5682  
Cell: (970) 309-2514  
[dave.kubeczko@state.co.us](mailto:dave.kubeczko@state.co.us)



 *Please consider the environment before printing this e-mail*

August 16, 2010

Midnight Star Breeders, LLC  
and  
Brit C. McLin and Sharon T. McLin  
PO Box 957  
Silt, CO 81652



Antero Resources  
1625 17th Street  
Denver, Colorado 80202  
Office 303.357.7310  
Fax 303.357.7315

RE: Rule 1202.e.- Consent to Proposed Best Management Practices (BMP's)  
Well Pad: **McLin C Pad**  
Surface location: NESE of Section 13, T6S, R92W, 6<sup>th</sup> P.M.  
Garfield County, Colorado


Midnight Star Breeders, LLC and Brit C. and Sharon T. McLin:

Antero Resources Corporation, as part of the permit application process for the subject well pad, consulted with the Colorado Division of Wildlife and included the recommendations made by them as part of our Proposed Best Management Practices (BMP's) for this location. Attached hereto for your review is a copy of Antero's Proposed BMP's, which are titled "Proposed BMP List-Wildlife Mitigation Plan Supplemental Best Management Practices, Antero Rifle Silt (Gravel Trend) Leasehold-March 24, 2010". Per Rule 1202.e., the operator must get consent from the surface owner before the COGCC can accept these BMP's as part of the permit. Specifically, the rule provides in part:

*Pursuant to COGCC Rule 1202.e., No permit-specific condition of approval for wildlife habitat protection under this rule shall be imposed without surface owner consent, including any permit-specific conditions for wildlife habitat protection that modify, add to, or differ materially from the general operating requirements in Rules 1203 and 1204. If the surface owner fails to consent to any such permit-specific condition of approval, then the parties shall consult with the surface owner regarding alternative conditions of approval acceptable to the surface owner.*

We would appreciate your consent by executing this letter in the space provided below and faxing a copy of it to my attention at fax number (303) 357-7315. If you have any questions, please call me at (303) 357-6412.

Regards,

  
Hannah Knopping  
Permit Representative

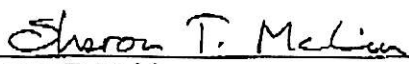
As surface owner, I hereby acknowledge that I have reviewed the Proposed Best Management Practices, which include recommendations from the Colorado Division of Wildlife, and give my consent to the subject Best Management Practices.

  
Midnight Star Breeders, LLC, Manager

Date: 19 AUGUST 2010

  
Brit C. McLin

Date: 19 AUGUST 2010

  
Sharon T. McLin

Date: 8/19/2010