

## Kubeczko, Dave

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**From:** Kubeczko, Dave  
**Sent:** Thursday, November 17, 2011 9:31 AM  
**To:** Kubeczko, Dave  
**Subject:** FW: Quicksilver Resources, K-Diamond Ranch 44-17 Pad, SESE Sec 17 T6N R92W, Moffat County, Form 2A (#400213636) Review

**Categories:** Orange - Operator Correspondence

**Scan No 2034070      CORRESPONDENCE      2A#400213636**

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**From:** Cindy Keister [<mailto:ckeister@qrinc.com>]  
**Sent:** Friday, October 28, 2011 7:12 AM  
**To:** Kubeczko, Dave  
**Cc:** Pamela Osburn  
**Subject:** FW: Quicksilver Resources, K-Diamond Ranch 44-17 Pad, SESE Sec 17 T6N R92W, Moffat County, Form 2A (#400213636) Review

Quicksilver agrees to the following COA's.

Cindy Keister  
Director Regulatory Affairs  
Quicksilver Resources  
801 Cherry Street  
Suite 3700, Unit 19  
Fort Worth, Texas 76102

Direct Line: 817/665-5572  
Cell: 682/429-3861

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**From:** Pamela Osburn  
**Sent:** Thursday, October 27, 2011 9:37 PM  
**To:** Cindy Keister  
**Subject:** Fw: Quicksilver Resources, K-Diamond Ranch 44-17 Pad, SESE Sec 17 T6N R92W, Moffat County, Form 2A (#400213636) Review

Thank you  
Pam Osburn  
Sent from Blackberry  
Please excuse typos

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**From:** Kubeczko, Dave [<mailto:Dave.Kubeczko@state.co.us>]  
**Sent:** Thursday, October 27, 2011 08:54 PM  
**To:** Pamela Osburn  
**Subject:** Quicksilver Resources, K-Diamond Ranch 44-17 Pad, SESE Sec 17 T6N R92W, Moffat County, Form 2A

Pam,

I have been reviewing the K-Diamond Ranch 44-17 Pad **Form 2A** (#400213636). COGCC would like to attach the following conditions of approval (COAs) based on the information Quicksilver has submitted on or attached to the Form 2A prior to passing the Oil and Gas Location Assessment (OGLA) review.

1. **Construction (Section 6):** The box answering the question will salt (>15,000 ppm TDS Cl) or oil based muds (OBM) be used? has been marked **Yes**; therefore the following condition of approval (COA) will apply:  
**COA 11** - The drilling pit, if constructed, must be lined, or a closed loop system (which operator has indicated on the Form 2A) must be implemented during drilling. All cuttings generated during drilling with OBM/high chloride mud must be kept in the lined drilling pit, or placed either in containers or on a lined/bermed portion of the well pad; prior to analysis and/or offsite disposal.  
**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.
2. **General:** The following conditions of approval (COAs) will apply:  
**COA 5** - Operator must implement best management practices to contain any unintentional release of fluids, including any fluids conveyed via temporary surface or buried pipelines.  
**COA 23** - Operator must ensure 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., best management practices (BMPs) associated with stormwater management) sufficiently protective of nearby surface water. Any berm constructed at the well pad location will be stabilized, inspected at regular intervals (at least every 14 days), and maintained in good condition.  
**COA 25** - Flowback and stimulation fluids must be sent to tanks, separators, or other containment/filtering equipment before the fluids can be placed into any pipeline or pit located on the well pad or into tanker trucks for offsite disposal. The flowback and stimulation fluid tanks, separators, or other containment/filtering equipment must be placed on the well pad in an area with additional downgradient perimeter berming. The area where flowback fluids will be stored/reused must be constructed to be sufficiently impervious to contain any spilled or released material.

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**

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