

## Kubeczko, Dave

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**From:** Kubeczko, Dave  
**Sent:** Friday, October 07, 2011 9:43 AM  
**To:** Kubeczko, Dave  
**Subject:** FW: Quicksilver Resources, K-Diamond Ranch 32-10 Pad, SWNE Sec 10 T6N R93W, ...  
  
**Categories:** Orange - Operator Correspondence

Scan No 2034033      CORRESPONDENCE      2A#400195239

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**From:** Cindy Keister [mailto:ckeister@qrinc.com]  
**Sent:** Monday, September 19, 2011 2:54 PM  
**To:** Kubeczko, Dave  
**Cc:** Lisa Smith (lspermitco@aol.com)  
**Subject:** FW: Quicksilver Resources, K-Diamond Ranch 32-10 Pad, SWNE Sec 10 T6N R93W, ...

Quicksilver approves the following COA's for the referenced well.

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:** LSPermitco@aol.com [mailto:LSPermitco@aol.com]  
**Sent:** Monday, September 19, 2011 3:41 PM  
**To:** Cindy Keister  
**Cc:** LSPermitco@aol.com  
**Subject:** Fwd: Quicksilver Resources, K-Diamond Ranch 32-10 Pad, SWNE Sec 10 T6N R93W, ...

Cindy - Please review and send your approval to Dave Kubeckzko and me. Thanks.

*Lisa Smith - President  
PermitCo Inc. - PO Box 99 - Eastlake, CO 80614  
303-857-9999 (office) - 303-324-9350 (cell) - 303-450-9200 (fax)*

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**From:** [Dave.Kubeczko@state.co.us](mailto:Dave.Kubeczko@state.co.us)  
**To:** [LSPermitco@aol.com](mailto:LSPermitco@aol.com)  
**Sent:** 9/19/2011 2:29:22 P.M. Mountain Daylight Time  
**Subj:** Quicksilver Resources, K-Diamond Ranch 32-10 Pad, SWNE Sec 10 T6N R93W, Moffat County, Form 2A (#400195239) Review

Lisa,

I have been reviewing the K-Diamond Ranch 32-10 Pad **Form 2A** (#400195239). 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 44** - The access road will be constructed to prevent sediment migration from the access road to nearby surface water or any drainages leading to other nearby surface waters.

**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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