

## Dave Kubeczko - DNR

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**From:** Dave Kubeczko - DNR  
**Sent:** Monday, August 19, 2013 3:05 PM  
**To:** dave.kubeczko@state.co.us  
**Subject:** FW: Petroleum Resource Management Corporation, Duncan Ranch 11-89-36 #3-4 Pad, Lot 19 (SWSE) Sec 36 T11N R89W, Moffat County, Form 2A #400443835 Review

**Categories:** Operator Correspondence

**Scan No 2106717      CORRESPONDENCE      2A#400443835**

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**From:** Dave Kubeczko - DNR [mailto:[dave.kubeczko@state.co.us](mailto:dave.kubeczko@state.co.us)]  
**Sent:** Monday, August 19, 2013 1:38 PM  
**To:** Duncan Shepherd - PRM  
**Cc:** JOHN CARMONY; Rick Obernolte  
**Subject:** Petroleum Resource Management Corporation, Duncan Ranch 11-89-36 #3-4 Pad, Lot 19 (SWSE) Sec 36 T11N R89W, Moffat County, Form 2A #400443835 Review

Duncan,

I have been reviewing the Duncan Ranch 11-89-36 #3-4 Pad **Form 2A** (#400443835). COGCC would like to attach the following conditions of approval (COAs) based on the data Petroleum Resource Management Corporation (PRM) has submitted on or attached to the Form 2A prior to passing the Oil and Gas Location Assessment (OGLA) review.

**General:** The following conditions of approval (COAs) will apply:

**COA 91** - Notify the COGCC 48 hours prior to start of pad/access road construction, rig mobilization, spud, and start of hydraulic stimulation operations using Form 42 (the appropriate COGCC individuals will automatically be email notified, including the LGD for hydraulic stimulation operations).

**COA 23** - Operator must ensure 110 percent secondary containment for any volume of fluids (excluding freshwater) 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 5** - Operator must implement best management practices to contain any unintentional release of fluids, including any fluids conveyed via buried or temporary surface pipelines.

**COA 71** - Operator shall design and construct the access road utilizing all available soils, geologic, landslide, and hydrogeologic information.

**COA 81** - During all construction, drilling, and completion phases at this location, operator shall be monitoring the wildfire potentials daily and have the appropriate additional equipment and measures in place. This may include smoking bans and additional fire fighting equipment. Operator shall consult with the NFS as necessary.

**COA 44** - The access road will be constructed as to not allow any sediment to migrate from the access road to nearby surface water or any drainages leading to surface water.

**COA 76** - Strategically apply fugitive dust control measures, including enforcing established speed limits on private roads, to reduce fugitive dust and coating of vegetation and deposition in water sources.

**COA 38** - The moisture content of any freshwater generated drill cuttings in a cuttings trench, area, or pile shall be as low as practicable to prevent accumulation of liquids greater than de minimis amounts. At the time of closure, if the freshwater generated drill cuttings are to be onsite, they must also meet the applicable standards of table 910-1.

**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, storage vessel, or lined pit (only if an amended Form 2A has been submitted/approved and a Form 15 Earthen Pit Permitted has been submitted/approved) 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.

**COA 58** - Berms or other containment devices shall be constructed to be sufficiently impervious (preferably corrugated steel with poly liner) to contain any spilled or released material around crude oil, condensate, and produced water storage tanks.

**Groundwater Baseline Sampling:**

**COA 9** - Operator shall comply with Rule 609. STATEWIDE GROUNDWATER BASELINE SAMPLING AND MONITORING.

**Surface Pipeline COAs:** The following conditions of approval (COAs) will apply to the Form 2A if temporary surface pipelines are used during hydraulic stimulation operations:

**COA 11** - Operator shall pressure test pipelines in accordance with Rule 1101.e.(1) prior to putting into initial service any temporary surface or permanent buried pipelines and following any reconfiguration of the pipeline network. Operator shall notify the COGCC Oil and Gas Location Assessment (OGLA) Specialist for Western Colorado (Dave Kubeczko; email [dave.kubeczko@state.co.us](mailto:dave.kubeczko@state.co.us)) and the COGCC Field Inspection Supervisor for Northwest Colorado (Shaun Kellerby; email [shaun.kellerby@state.co.us](mailto:shaun.kellerby@state.co.us)) 48 hours prior to testing surface poly or buried steel pipelines.

**COA 48** - Operator must implement best management practices to contain any unintentional release of fluids along all portions of the surface pipeline route where temporary pumps and other necessary equipment are located.

**COA 49** - Operator must routinely inspect the entire length of the surface pipeline to ensure integrity. Operator shall conduct daily inspections of surface poly pipeline routes for leaks during active transfer of fluids. Inspections shall be conducted by viewing the length of the pipeline; operator will endeavor to minimize surface disturbance during pipeline monitoring. The operator shall maintain records of inspections, findings and repairs, if necessary, for the life of the pipelines.

**COA 54** - Operator must ensure 110 percent secondary containment for any potential volume of fluids that may be released from the surface pipeline at all sensitive area crossings, including, but not limited to stream, intermittent stream, ditch, and drainage crossings.

**COA 55** - Operator will utilize, to the extent practical, all existing access and other public roads, and/or existing pipeline right-of-ways, when placing/routing the surface pipelines. This will reduce surface disturbance and fragmentation of wildlife habitat in the area.

Based on the information provided in the Form 2A by PRM, COGCC will attach these COAs to the Form 2A permit, PRM does not need to respond, unless you have questions or concerns with details and/or COAs listed in this email. These COAs are similar to those placed on the Wiregrass 10-88-7 #2-1 well pad in Routt County. If you have any questions, please do not hesitate to call me at [\(970\) 309-2514](tel:9703092514) (cell), or email. Thanks.

Dave

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

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