

## Kubeczko, Dave

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**From:** Kubeczko, Dave  
**Sent:** Tuesday, April 19, 2011 10:43 AM  
**To:** Kubeczko, Dave  
**Subject:** FW: Petrox Resources Inc, Tierra Piedra 33-5 #15-1 SWD Well Pad, NWNW Sec 15 T33N R5W, Archuleta County, Form 2A (#1635037) Review

**Categories:** Orange Category

Scan No 2033708      CORRESPONDENCE      2A#1635037

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**From:** Mike Clark [mailto:mike.petroxcbm@gmail.com]  
**Sent:** Monday, April 18, 2011 11:04 PM  
**To:** Kubeczko, Dave  
**Subject:** Re: Petrox Resources Inc, Tierra Piedra 33-5 #15-1 SWD Well Pad, NWNW Sec 15 T33N R5W, Archuleta County, Form 2A (#1635037) Review

Dave--Petrox will not monitor the Piedra River per COA 20. My reasons are as follows: 1 The analysis being required is expensive and includes compounds which are not found in CBM water .2 The COGCC should be aware the Piedra River is in a heavily farmed area and may be subject to upstream pollution due to fertilizers and pesticides releases from irrigation. Some of the chemical compounds listed in COA 20 mainly the organics, BTEX, DRO's and TPH are constituents of pesticides, fertilizers and by-products of farming. Petrox and our partners will not be put in a legal position to be fined or pay for cleanup associated with these pollutant's. 3. The EPA permit supplied to the COGCC has ample safeguards and oversight by the EPA inspectors to prevent any injected water at 5200 ft from reaching surface water or the Piedra River System. The remaining COA's listed are acceptable and can be complied with. If you would like to discuss further please feel free to call me. Mike Clark Petrox Resources Inc

On Mon, Apr 18, 2011 at 1:30 PM, Kubeczko, Dave <[Dave.Kubeczko@state.co.us](mailto:Dave.Kubeczko@state.co.us)> wrote:

Mike,

I have been reviewing the Tierra Piedra 33-5 #15-1 SWD Well Pad **Form 2A** (#1635037). COGCC would like to attach the following conditions of approval (COAs) based on the information and data Petrox Resources has submitted on or attached to the Form 2A prior to passing the Oil and Gas Location Assessment (OGLA) review. In addition, COGCC would required a copy of the approved UIC Well Permit from the EPA prior to final approval of the Form 2 and Form 2A permits.

1. **General Site:** Since the location is close to surface water (irrigation ditch and Piedra River), as well as upstream of the Arboles water intake and Piedra Park Metropolitan Improvement District water supply wells (completed in the Piedra River alluvium), the following conditions of approval (COAs) will apply:

**COA 48** - Operator must submit an as-built drawing (plan view and cross-sections) of the SWD injection well pad and associated equipment within 14 calendar days of construction.

**COA 4** - Location is in a sensitive area because of close 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 (12-inch earthen should be sufficient) 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 temporary surface pipelines or permanent buried pipelines.

**COA 1** - Location is in a sensitive area due to close proximity to a water well and shallow groundwater; therefore any pit used to contain/hold fluids, if constructed, must be lined or a closed loop system (which operator has indicated on the Form 2A – Section 6. Construction) must be implemented during drilling.

**COA 90** - Notify 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 Southern Colorado (Mike Leonard; email [mike.leonard@state.co.us](mailto:mike.leonard@state.co.us)) 48 hours prior to start of construction/move in of rig.

**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 25** – If the injection requires hydraulic fracturing, flowback and stimulation fluids must be sent to tanks to allow the sand to settle out before the fluids can be placed into any pipeline or pit located on the well pad. The flowback and stimulation fluid tanks 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 (per Rule 604.a.(4)).

**COA 26** - 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 Southern Colorado (Mike Leonard; email [mike.leonard@state.co.us](mailto:mike.leonard@state.co.us)) 48 hours prior to start of fracing operations.

**COA 20** - When sufficient water exists in the Piedra River, collection of baseline surface water data consisting of a pre-drilling surface water sample collected immediately down gradient of the oil and gas location; and follow-up surface water data consisting of a sample collected at the same location three (3) months after the conclusion of any drilling activities and completion, and every year during active injection operations. The sample parameters shall include: pH; alkalinity; specific conductance; major cations/anions (chloride, fluoride, sulfate, sodium); total dissolved solids (TDS); benzene, toluene, ethyl benzene, total xylenes (BTEX); diesel range organics (/DRO); total petroleum hydrocarbons (TPH); poly aromatic hydrocarbons (PAHs), (including benzo(a)pyrene); and metals (arsenic, barium, calcium, chromium, iron, magnesium, selenium).

**COA 46** - Operator will use qualified containment devices for all appropriate chemicals/hazardous materials used onsite during the operation of the injection well.

**COA 51** - Operator shall equip and maintain on all tanks an electronic level monitoring device that will immediately shut in pipelines from wells.

**COA 52** - Operator shall install a steel containment ring around tank batteries to provide secondary containment and install a synthetic liner that underlies the entire battery and is keyed into the top of the containment ring.

COGCC would appreciate your concurrence with attaching these COAs (item 1) 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](tel:9703092514) (cell), or email. Thanks.

Dave

**David A. Kubeczko, PG**

**Oil and Gas Location Assessment Specialist**

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