

Kubeczko, Dave

From: Kubeczko, Dave
Sent: Wednesday, December 29, 2010 10:11 AM
To: Kubeczko, Dave
Subject: FW: Berry Petroleum, Chevron J29 596 Pad, NWSE Sec 29 T5S R96W, Garfield County, Form 2A (#400108226) Review

Scan No 2033546 CORRESPONDENCE 2A#400108226

From: Moran, Kallasandra M. [mailto:k Moran@bry-consultant.com]
Sent: Wednesday, December 29, 2010 10:10 AM
To: Kubeczko, Dave
Subject: RE: Berry Petroleum, Chevron J29 596 Pad, NWSE Sec 29 T5S R96W, Garfield County, Form 2A (#400108226) Review

Dave,

Berry Petroleum Company concurs with the proposed COAs

Thanks!

Kallasandra M. Moran
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Berry Petroleum Company
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Denver, Colorado 80202

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From: Kubeczko, Dave [mailto:Dave.Kubeczko@state.co.us]
Sent: Wednesday, December 29, 2010 10:02 AM
To: Moran, Kallasandra M.
Subject: Berry Petroleum, Chevron J29 596 Pad, NWSE Sec 29 T5S R96W, Garfield County, Form 2A (#400108226) Review

Kallasandra,

I have been reviewing the Chevron J29 596 Pad **Form 2A** (#400108226). COGCC requests the following clarifications regarding the data Berry Petroleum has submitted on or attached to the Form 2A. In addition, COGCC would like to attach the following conditions of approval (COAs) based on the information on the Form 2A prior to passing the Oil and Gas Location Assessment (OGLA) review.

1. **General Notification:** The following condition of approval (COA) will apply:
COA 91 - Notify COGCC Oil and Gas Location Assessment (OGLA) Specialist for Western Colorado (Dave Kubeczko; email dave.kubeczko@state.co.us) 48 hours prior to start of construction.
2. **Water Resources (Section 14):** Form 2A indicates that the distance to the nearest surface water is 21706 feet. COGCC's rules state that the distance to the nearest surface water should reflect intermittent, as well as, perennial streams. COGCC's review indicates there is an intermittent stream located approximately 479 feet to

the east (this is shown on the attached Hydrology Map), as well as a perennial stream (Little Creek) located approximately 1155 feet to the southeast (this is also shown on the attached Hydrology Map). I can make the change (479 feet) if you send me an email with this request.

3. **General:** COGCC's review indicates that the well pad location is approximately 292 feet from the current northern edge of the area defined in the notice to operators (NTO) for drilling wells on the Roan Plateau in Garfield County. Although this well pad location does not fall within the current Roan Rim NTO boundaries, those boundaries are currently being revised; therefore, this location will be designated a *sensitive area*. Due to the highly fractured nature of the surface material in the area around the Roan Rim, 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 pipelines.
 - COA 9** - Any pit constructed to hold fluids (reserve pit, production pit, frac pit; except for flare pit, if built) must be lined.
 - COA 10** - Since the operator will be running up to 10 percent (by volume) diesel oil in the water based drilling mud as a shale stabilization and friction reduction additive while drilling the production hole interval, any pit constructed to hold fluids must be permitted, and approved, prior to construction and use (a Form 15 [Earthen Pit Report/Permit] will need to be submitted). Additional COAs may be attached to the Form 15.
 - COA 40** - The nearby hillside must be monitored for any day-lighting of drilling fluids throughout the drilling of the surface casing interval.
 - COA 23** - 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., 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 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)). Under unforeseen upset conditions during flowback operations, operator may discharge flowback fluids directly into the pit, as needed (notice of intent to directly discharge into the pit must be sent to Dave Kubeczko; email dave.kubeczko@state.co.us).
 - COA 58** - Berms or other containment devices shall be constructed in compliance with Rule 603.e.(12) around crude oil, condensate, and produced water storage tanks.
 - 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.
4. **Notice to Operators (NTO) Drilling Wells on the Roan Plateau in Garfield County:** Again, although this well pad location does not fall within the current Roan Rim NTO boundaries, those boundaries are currently being revised; therefore the operator must comply with all provisions of the June 12, 2008 Notice to Operators (NTO) Drilling Wells Within ¼ Mile of the Rim of the Roan Plateau in Garfield County – Pit Design, Construction, and Monitoring Requirements. At a minimum, the following condition of approval (COA) will apply:
 - COA 6** - All pits must be lined.

COGCC would appreciate your concurrence with attaching these COAs (items 1, 3, and 4) to the Form 2A permit prior to passing the OGLA review. The other issue (item 2) also needs to be addressed prior to permit approval. 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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