

## Kubeczko, Dave

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**From:** Kubeczko, Dave  
**Sent:** Friday, November 13, 2009 11:47 AM  
**To:** Kubeczko, Dave  
**Subject:** FW: Kerr-McGee Camp 35-31, SWSW Sec 31 T3N R65W, Weld County, Form 2A #400001006 Review

Scan No. 2032653      CORRESPONDENCE      Form 2A #400001006

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**From:** Light, Cheryl [mailto:Cheryl.Light@anadarko.com]  
**Sent:** Friday, November 13, 2009 9:25 AM  
**To:** Kubeczko, Dave  
**Subject:** RE: Kerr-McGee Camp 35-31, SWSW Sec 31 T3N R65W, Weld County, Form 2A #400001006 Review

Please make the changes as noted below and we will use a closed loop system.

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**From:** Kubeczko, Dave [mailto:Dave.Kubeczko@state.co.us]  
**Sent:** Thursday, November 12, 2009 5:12 PM  
**To:** Light, Cheryl  
**Subject:** Kerr-McGee Camp 35-31, SWSW Sec 31 T3N R65W, Weld County, Form 2A #400001006 Review

Cheryl,

I have been reviewing the Camp 35-31 Form 2A (#400001006). COGCC requests the following clarifications regarding the data Kerr-McGee has submitted on or attached to the Form 2A prior to passing the Oil and Gas Location Assessment.

1. **Water Resources (Section 14):** Form 2A indicates the distance to the nearest surface water is 47 feet. I could not find this surface water on our online GIS maps, nor did I find it on the attached hydrology map. I did find a possible intermittent stream located approximately 2704 feet to the north-northeast and the Speer Canal located 5090 feet to the west-southwest. Either of these would be more representative of nearby surface water. I can make this change if you send me an email with this request.
2. **Water Resources (Section 14):** Form 2A indicates the depth to groundwater to be 700 feet bgs for a well located 1513 feet away from the proposed pad. COGCC's review indicates there is a water well (Permit No. 211268-Booco, domestic/stock well) located 1564 feet to the south, with a total depth of 700 feet bgs and a depth to groundwater of 439 feet bgs. The number that comes up on our GIS map is 700 feet (this number often pertains to the total depth of the well, not the depth to groundwater). COGCC's review of other nearby water wells found the closest well to be 1265 feet to the southwest (Permit No. 73608-Brown, household) with a total depth of 40 feet bgs, depth to groundwater of 18 feet bgs, and a pumping rate of 1 gpm; another water well was located 1 mile to the east (Permit No. 257480-Renewable Environmental Solutions, monitoring well) with a total depth of 33 feet bgs and depth to groundwater of 30 feet bgs. These wells are more representative of the shallow groundwater conditions in this area. I can make this change if you send me an email with this request. Based on depth to groundwater of 10 to 18 feet bgs, as well as the highly permeable nature of the near surface unconsolidated materials in this area (loose sand and gravels), COGCC guidelines require designating all locations with shallow groundwater (i.e., less than 20 feet) a **sensitive area**. Although the depth to groundwater cannot be confirmed to be less than 20 feet bgs at this location, the following conditions of approval (COAs) will apply:

**COA 2** - Location may be in a sensitive area due to shallow groundwater; therefore if drilling pits intercept groundwater the pit must be lined or a closed loop system must be used.

**COA 5** - Operator must implement best management practices to contain any unintentional release of fluids.

COGCC requires your written approval of these COAs prior to passing the OGLA review. If you have any questions, please do not hesitate to call me at (970) 625-2497 x5 (office) or (970) 309-2514 (cell), or email. Thanks.

Dave

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

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