

## Allison, Rick

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**From:** Fred Miller [Fred.Miller@crzo.net]  
**Sent:** Monday, March 28, 2011 4:15 PM  
**To:** Allison, Rick  
**Subject:** Re: NELSON 17-44-9-60 - COGCC review Form 2A (Doc 400136554) for Carrizo Oil ...

If it does not delay the process I do not see any problems with removing the pit.

Best regards,

Fred Miller  
Production Engineer  
Carrizo Oil & Gas Inc.  
Office: 713-358-6208  
Cell: 713-417-9527  
Work E-Mail: [fred.miller@crzo.net](mailto:fred.miller@crzo.net)

On Mar 28, 2011, at 4:23 PM, "Allison, Rick" <[Rick.Allison@state.co.us](mailto:Rick.Allison@state.co.us)> wrote:

Thank you, Fred. Does Carrizo still want to proceed with the fresh water frac pond on the Nelson location, or can that be removed from the Form 2A since you have access to use the pond at the State 16-11-9-60H location?

Rick

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**From:** Fred Miller [<mailto:Fred.Miller@crzo.net>]  
**Sent:** Monday, March 28, 2011 12:39 PM  
**To:** Allison, Rick; [VLLPermitco@aol.com](mailto:VLLPermitco@aol.com)  
**Cc:** Kimberly Long  
**Subject:** RE: NELSON 17-44-9-60 - COGCC review Form 2A (Doc 400136554) for Carrizo Oil ...

Rick,

Per our conversation,

Carrizo will be sure to add these COAs concerning the fresh water frac pond on future 2A's.

Best regards,



Fred Miller

Production Engineer

Carrizo Oil & Gas, Inc.

1000 Louisiana St., Suite 1500  
Houston, TX 77002

Office Phone: 713-358-6208

Cell Phone: 713-417-9527

E-Mail: [Fred.Miller@crzo.net](mailto:Fred.Miller@crzo.net)

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**From:** Allison, Rick [<mailto:Rick.Allison@state.co.us>]

**Sent:** Monday, March 28, 2011 12:13 PM

**To:** [VLLPermitco@aol.com](mailto:VLLPermitco@aol.com); Fred Miller

**Subject:** RE: NELSON 17-44-9-60 - COGCC review Form 2A (Doc 400136554) for Carrizo Oil

...

Fred,

Per our conversation today, COGCC will apply the following Conditions of Approval to locations with a fresh water frac pond:

1. The fresh water storage pit shall include signage that: identifies the pit use as a freshwater-only pit, prohibits placing E&P Waste in the pit, and lists each well that the pit will serve.
2. Operator is prohibited from allowing any fluids to flow back to the fresh water Frac Pit.
3. The freshwater storage pit shall be constructed and maintained to prevent terrestrial wildlife or livestock entrapment.
4. Notify Rick Allison at [rick.allison@state.co.us](mailto:rick.allison@state.co.us) 48 hours prior to construction of the frac reserve pit.

These COAs will replace the five COAs listed below in the email chain.

I have one more point of clarification specific to the Nelson location – if you are able to use the pit at the State 16-11-9-60H location, I assume that means no pit will be constructed at the Nelson location. If so, COGCC would like to revise the Form 2A (which is still in process) to reflect the smaller location without a pit. Please let me know if Carrizo agrees with the proposed revision of the Form 2A.

Thank you,

Rick

Rick Allison, P.G.

Oil and Gas Location Assessment Specialist

Colorado Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801

Denver, CO 80203

303-894-2100 ext 5102

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**From:** [VLLPermitco@aol.com](mailto:VLLPermitco@aol.com) [<mailto:VLLPermitco@aol.com>]

**Sent:** Tuesday, March 08, 2011 12:46 PM

**To:** Allison, Rick

**Subject:** Re: NELSON 17-44-9-60 - COGCC review Form 2A (Doc 400136554) for Carrizo Oil

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Carrizo is in concurrence with the conditions of approval listed below.

Venessa Langmacher

Permitco Inc.  
P.O. Box 99  
Eastlake, CO 80614  
303/857-9999 ext. 11  
303/450-9200 fax

In a message dated 3/8/2011 8:46:25 A.M. Mountain Standard Time, [Rick.Allison@state.co.us](mailto:Rick.Allison@state.co.us) writes:

Hi Venessa,

The COGCC is reviewing the Form 2A oil and gas location assessment for the NELSON 17-44-9-60 well location in the SESE Sec17 T9N R60W, Weld County, and requests that Carrizo Oil & Gas approve the following changes to the Form 2A:

- 1) **Facilities:** The Fresh Water Frac Pit should be classified as a drilling pit because it is a reserve pit. I will leave the comment in the facilities – other box, but please approve me changing the number of drilling pits from 1 to 2.
- 2) **BMPs:** Carrizo has stated the following on the submitted Form 2A:  
“Operator will ensure 110 percent secondary containment for any volume of fluids contained at the well site during drilling and completion. Operator will implement best management practices to contain any unintentional release of fluids.” COGCC will place these BMPs on the BMP tab of the Form 2A. In addition, COGCC would like to add the following statement to the BMP section of the Form 2A: “Operator has designed the well pad with insloping and a stormwater control ditch to prevent stormwater runoff/runoff and the release of fluids from the location. See attached Construction Layout Drawing.”

3) **Conditions of Approval:** The following conditions of approval will apply to the fresh water frac pit. COGCC would appreciate Carrizo's concurrence with the following:

**COA 1:** If fresh water for the Frac Pit does not originate from a municipality or an irrigation source (well, pond, canal, etc.), please provide the source of origination to the COGCC prior to placement of the water in the pit.

**COA 2:** Operator is prohibited from allowing any fluids to flow back to the fresh water Frac Pit.

**COA 3:** Frac pit shall contain fresh water only. Frac pit must include signage prohibiting the use of the pit for any fluid that does not come from a municipal, irrigation or surface water source.

**COA 4:** The fresh water Frac Pit must be fenced to prevent wildlife or livestock entry.

**COA 5:** Notify Rick Allison at [rick.allison@state.co.us](mailto:rick.allison@state.co.us) 48 hours prior to construction of the frac reserve pit.

Please contact me if you have any questions regarding this Form 2A.

Best Regards,

Rick Allison, P.G.

Oil and Gas Location Assessment Specialist

Colorado Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801

Denver, CO 80203

303-894-2100 ext 5102