From:	Keith Caplan
To:	"Andrews - DNR, Doug"; greg.deranleau@state.co.us
Cc:	Katey Krupka; Randy Edelen; Dana Strunk; Tyson Johnston; Gary Johnson
Subject:	RE: COGCC Form 2A review of Bonanza Creek"s State Antelope 14-2 Pad location - Doc #400512244
Date:	Monday, January 20, 2014 12:16:48 PM
Attachments:	Cement Vault Installation BMP.pdf Cement Vault Installation BMP.docx
Importance:	High

Doug,

I have attached the Cement Vault Installation BMPs. I apologize for the omission.

Regarding the MLVTs (TLVSTs) listed for this location; we have decided to store the frac water off-location. The location of the Rockwater Tanks to be set to supply fresh-water for the stimulation of the associated wells is still being worked on. It looks like the location will be an AL or another new 2A location in the vicinity.

Please remove any references to the use of MLVTs on the State Antelope 14-2 Pad Location.

We need this location for a rig that has spud its last well on its current drilling location. Will you be able to get this 2A and associated APDs approved within the next day or so?

Thank you,
Keith S. Caplan
(720) 440-6112

From: Andrews - DNR, Doug [mailto:doug.andrews@state.co.us]
Sent: Thursday, December 26, 2013 11:20 AM
To: Keith Caplan
Subject: COGCC Form 2A review of Bonanza Creek's State Antelope 14-2 Pad location - Doc #400512244

Keith,
I have reviewed the referenced Form 2A Oil & Gas Location Assessment and have the following comments.

A) Because there will be buried produced water vaults on this oil and gas location, please send me Bonanza Creek's Best Management Practices on buried produced water vaults and I will add it to the Form 2A.

B) Because you will be using Temporary Large Volume Above Ground Tanks (TLVST) at this oil and gas location, please provide me with the following additional information: the manufacturer of the TLVSTs, the anticipated timeframe the TLVSTs will be onsite, and a Facility Layout Drawing indicating where the TLVSTs will be located with respect to other facility equipment, property boundaries and setback structures.

C) Because you will be using TLVSTs at this oil and gas location, I would like to add the following Conditions of Approval:

1. TLVSTs may only be utilized for the storage of freshwater. E&P wastes,

including produced water, treated E&P wastes, and flowback from hydraulic fracturing operations, are not allowed.

2. TLVSTs shall be constructed and operated in accordance with a design certified by a Colorado Licensed Professional Engineer.

3. TLVSTs shall not be located on non-engineered fill material. Subgrade preparation shall be verified by proof-rolling prior to installation of TLVST.

4. COGCC Rules 604.a. and 605.a.(2,3,5,6,7, and 8), as applicable to tank setbacks at the time of installation shall apply to the siting of TLVSTs.

5. All TLVST liner seams shall be welded at the liner manufacturers facility; field welded liners shall not be used. Liners shall not be reused.

6. Signs shall be posted on each TLVST to indicate contents are freshwater and that no E&P waste fluids are allowed. Location and additional signage shall conform to Rule 210.

7. TLVSTs shall be operated with a minimum of 1 foot freeboard.

8. Operator shall be onsite and inspect for leaks during the initial filling of TLVST. If leaks are observed, filling shall cease and the leaks be repaired and the integrity of the tank evaluated.

9. Once in operation, TLVST shall be inspected daily and any deficiencies repaired as soon as practicable.

10. Best Management Practices (BMPs) shall be employed to prevent injuries, property damage or environmental impacts, such as erosion of onsite sediment into nearby surface water.

11. Should a failure of TLVST integrity occur, operator shall notify COGCC upon discovery, report the incident to COGCC on a Form 22-Accident Report within 10 days, and shall conduct a root cause analysis and provide it to the COGCC on a Form 4-Sundry Notice within 30 days of the failure.

Please provide me the requested items by January 26, 2014. If you have any questions, please feel free to contact me. Thank you.

--

Doug Andrews

Oil & Gas Location Assessment Specialist - Northeast Area
Colorado Oil & Gas Conservation Commission
1120 Lincoln St., Suite 801
Denver, CO 80203

doug.andrews@state.co.us
303-894-2100 Ext. 5180

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