

## Halstead, Mary

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**From:** Brad Baum [bbaum@buysandassociates.com]  
**Sent:** Tuesday, September 29, 2009 3:43 PM  
**To:** Halstead, Mary  
**Subject:** RE: Form 2A - Wells Ranch Wells 33-12, 34-12,43-12, 12D

Yes. No H2S is anticipated.

I am currently trying to clarify that issue regarding separators on each pad. I will get the info to you as quickly as possible.

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**From:** Halstead, Mary [mailto:Mary.Halstead@state.co.us]  
**Sent:** Tuesday, September 29, 2009 3:37 PM  
**To:** Brad Baum  
**Subject:** RE: Form 2A - Wells Ranch Wells 33-12, 34-12,43-12, 12D

Sorry I noticed on other minor note in Section 6 Construction – The older version of the 2A form does not have a check off box for H2S Gas. Do I have your approval to check no to the box for is H2S gas anticipated?

Take care again, Mary

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**From:** Brad Baum [mailto:bbaum@buysandassociates.com]  
**Sent:** Tuesday, September 29, 2009 2:47 PM  
**To:** Halstead, Mary  
**Cc:** 'Carrie Eggleston'  
**Subject:** FW: Form 2A - Wells Ranch Wells 33-12, 34-12,43-12, 12D

Mary,

My name is Brad Baum with Buys and Associates, and I have been assisting Ms. Eggleston with the preparation of the APDs. I would like to address your questions that were submitted via email to Ms. Eggleston.

1. All the wells have the same reference area map showing the reference location and Well 12D. Does this mean that the same reference area is used for all 5 wells or was the same map erroneously submitted for 4 of the wells?  
Yes, please use the same reference area for all five wells. Based upon our observations, all five wells are located in the same vegetative type and within an active grazing area. In addition, the wells are in close proximity to each other. Therefore, we decided that one reference area should suffice for all five wells.
2. I would recommend changing the depth to groundwater from 18 feet to 23 feet. I found an abandoned National Hog Farm monitor well located closer to the 5 wells. I also noted that this well was incorrectly located on the COGCC map, using the distances from section lines provided in the permit the well moved considerably closer to the proposed locations. This well has a recorded depth to groundwater of 23 feet. The reason for this recommendation is that if the depth to groundwater is less than 20 feet, COGCC typically requires a closed loop system or lined drilling pit. Specifically I would like your approval to change the depth to 23 feet and I would add the following comments:
  - 33-12: The depth to groundwater was obtained from an abandoned monitor well (#23002MH) located 2400 feet southeast of the proposed location.
  - 34-12: The depth to groundwater was obtained from an abandoned monitor well (#23002MH) located 1360 feet southwest of the proposed location.
  - 43-12: The depth to groundwater was obtained from an abandoned monitor well (#23002MH) located 2040 feet south of the proposed location.

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44-12: The depth to groundwater was obtained from an abandoned monitor well (#23002MH) located 840 feet south of the proposed location.

12D: The depth to groundwater was obtained from an abandoned monitor well (#23002MH) located 1640 feet southeast of the proposed location.

I agree. Per your recommendation, please change the depth to groundwater and add your comments.

3. The Facilities List for all the wells only notes one separator which is on 12D. Does this mean that there are no separators at the other well sites and that this one separator handles all the wells?  
It is my understanding that the 12D is the central production site and the fluids from all five wells are processed at the 12D. This is also shown on Exhibit 4C in each of the APDs submittal packages.

Please let me know if I can be of any further assistance.

Brad

**Bradley M. Baum**

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