

## Sensitive Area Determination Checklist

Williams Production RMT Company – Valley		
<b>Person(s) conducting inspection</b>	Ashley Lane	Date: 9/9/2009
<b>Site Information</b>		
Location:	DOE 3-W-29 Well Pad	Time: 15:15
Site Activity:	None-Existing Well Pad	
Personnel on-site:	None	
<b>Environmental Conditions</b>	Dry soil conditions, Isolated Thunderstorms	
Temperature (°F)	~80	

1. Will the pit of the proposed facility contain hydrocarbons and chlorides or other E&P wastes?

X Yes      ☐ No (*If no, this form does not need to be completed.*)

If yes, list pit type(s): Flare Pit

### SURFACE WATER

1. Are there any surface water features or SWSAs adjacent to or within the ¼ mile buffer zone?

X Yes      ☐ No (*If no, move to Groundwater section of this checklist.*)

If yes, list type of surface water feature(s), i.e. seeps, springs, wetlands:

Two ephemeral drainages

If yes, describe location relative to facility:

The larger of the two ephemeral drainages lies to the west of the existing pad. The second ephemeral drainage runs from the north side of the pad, across the pad, and off the south edge of the pad near the center.

2. Could a potential release from the proposed facility reach surface water features?

X Yes      ☐ No (*If no, move to Groundwater section of this checklist.*)

If yes, describe the pathway release from facility will likely follow to determine if the potential to impact surface water is high or low.

A release from the facility would most likely not have an effect on the ephemeral drainage to the west due to the existing pad construction. There is a moderate to high potential to reach the ephemeral drainage which flows off the south edge of the pad.

3. Is the potential to impact surface water from a facility release high or low?

☐ High      X Low

**GROUNDWATER**

1. Is the site of the proposed facility underlain by an unconfined aquifer?  
☐ Yes      ☒ No (*If no, this section does not need to be completed.*)
2. Is the hydraulic conductivity of the underlying soil or bedrock  $\geq 1.0 \times 10^{-7}$  cm/sec?  
☐ Yes (*If yes, this section does not need to be completed.*)      ☒ No
3. Is the proposed facility located within 1/8 mile of a domestic water well or 1/4 mile of a public water supply well?  
☐ Yes      ☒ No (*If no, this section does not need to be completed.*)
4. Is the proposed facility located within a 100 year floodplain?  
☐ Yes (*Sensitive Area*)      ☒ No (*If no, proceed to question #5.*)
5. Is the depth to groundwater known?  
☐ Yes      ☒ No (*If no, follow instructions provided in 5(b) of this section.*)
  - (a) If yes, could a potential release from the proposed facility reach groundwater?  
☐ Yes      ☒ No (*If no, this section does not need to be completed.*)  
 If yes, model the hydro geologic conditions to determine if the potential to impact groundwater is high or low.
  - (b) If no:
    - (i) Drill a soil boring to determine depth to groundwater.
    - (ii) Evaluate subsurface data to determine if confining layers exist.
    - (iii) Model hydro geologic conditions to determine if the potential to impact groundwater is high or low.
6. Is the potential to impact ground water from a facility release high or low?  
☐ High      ☒ Low

**Additional Comments:**

Even though the potential for a release to reach the unnamed ephemeral drainage that runs off the south edge of the pad is moderate to high; field reconnaissance revealed that a release to this drainage would terminate in open rangeland at the base of the hillside below the pad. Therefore the potential for a release to reach flowing surface water is very low and the pad can be designated as being in a non-sensitive area.

Inspector(s) Signature(s):

M. E. McIntosh  
Adrian Kane

Date: 9/9/2009

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