

## Sensitive Area Determination Checklist

Williams Production RMT Company		
Person(s) Conducting Field Inspection	Ashlee Lane <i>Biologist</i>	03/14/11
Site Information		
Location:	KP 41-28	Time: N/A
Type of Facility:	Proposed Well Pad	
Environmental Conditions	Site visit not conducted due to snow pack.	
Temperature (°F)		

Has the proposed, new or existing location been designated as a sensitive area?

☐ Yes      ☒ No

### **SURFACE WATER**

1. Are there any surface water features or SWSAs adjacent to or within ¼ mile of the proposed/new or existing facility?

☐ Yes      ☒ No

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

If yes, describe location relative to facility:

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

☐ Yes      ☒ No

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

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

☐ High      ☒ Low

## GROUNDWATER

1. Will the proposed/new or existing facility have any pits which will contain hydrocarbons and chlorides or other E&P wastes?

☒ Yes      ☐ No

If yes, List the pit type(s): Drilling pit.

2. Is the site of the proposed facility underlain by an unconfined aquifer or recharge zone?

☐ Yes      ☒ No

3. Is the hydraulic conductivity of the underlying soil or geologic material  $\leq 1.0 \times 10^{-7}$  cm/sec?

☐ Yes      ☒ No

4. Is the proposed facility located within 1/8 mile of a domestic water well or 1/4 mile of a public water supply well which would use the same aquifer?

☐ Yes      ☒ No

5. Is the proposed facility located within a 100 year floodplain?

☐ Yes (*Sensitive Area*)      ☒ No (*If no, proceed to question #6.*)

6. Is the depth to groundwater known?

☐ Yes (*If yes, follow instructions provided in 6(a) of this section.*)

☒ No (*If no, follow instructions provided in 6(b) of this section.*)

- (a) If yes, could a potential release from the proposed facility reach groundwater?

☐ Yes      ☐ No

If yes, explain:

- (b) If no:

(i) Evaluate surrounding soils, topography, and vegetation which may suggest the presence of shallow groundwater.

(ii) Gather information from surrounding well data in order to determine a depth to groundwater, i.e. State Engineers Office.

7. Is the potential to impact ground water from the facility in the event of a release high or low?

☐ High      ☒ Low

### Additional Comments:

As stated in the surface water section of this sensitive area determination, the potential to impact surface water and/or surface water features has been deemed low. There are no surface waters or surface water features within a ¼ mile of the proposed facility. The nearest surface water feature has been identified 3,301 feet to the east.


The proposed facility will be constructed on a ridgeline which gently slopes to the north with abrupt slopes ¼ mile to the east and west. It is recommended that Best Management Practices (BMPs) be installed in the form of an earthen perimeter berm along the northern and portions of the eastern and western edges of the facility. In addition, it would be recommended that a diversion ditch be constructed along the bottom of the fill slopes. These BMPs should be monitored and maintained to ensure site containment in the event of a release.

The State Engineer's Office and USGS records were reviewed and no records were revealed that would provide additional information pertaining to the depth to groundwater within the immediate vicinity of the proposed facility. The nearest water well is located 4,314 feet to the northeast and has a depth to groundwater of 22 feet. This well is most likely within the Garfield Creek flow regime which is approximately 1,000 feet lower in elevation than that of the proposed facility which is located on top of Jolly Mesa. The vegetative cover in the immediate vicinity of the facility consists of Piñon Juniper woodland, sage brush, oak brush and grasslands which does not suggest the presence of shallow groundwater.

Based on the information collected during the desktop review and previous site visits to the area, the potential to impact actual surface water or surface water features has been deemed low. Based on the topographical setting of the proposed facility, the potential to impact ground water has been deemed low. Therefore, the facility can be designated as being in a non-sensitive area.

Inspector Signature(s):  Date: 3/15/2011

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 Date: 03/14/2011

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