

Sensitive Area Determination Checklist

Williams Production RMT Company – Highlands		
Person(s) Conducting Field Inspection	Ashlee Lane	8/17/10
	<i>Biologist</i>	
Site Information		
Location:	RG 12-14-298	Time: 1200
Type of Facility:	Existing well pad	
Environmental Conditions	Clear and calm	
Temperature (°F)	85°	

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

☐ Yes ☒ No

SURFACE WATER

- 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: One unnamed ephemeral drainage.

If yes, describe location relative to facility: The unnamed ephemeral drainage is located 998 feet to east southeast of the facility.

- 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. A potential release, if it were to migrate off the facility, would have the tendency to flow to the southeast or northwest based on the topography of the area.

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

☐ High ☒ Low

GROUNDWATER

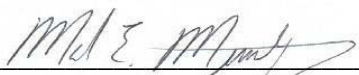
1. Will the proposed/new or existing facility have any pits which will contain hydrocarbons and chlorides or other E&P wastes?
☒ Yes ☐ No
If yes, List the pit type(s):
2. Is the site of the proposed facility underlain by an unconfined aquifer or recharge zone?
☐ Yes ☒ No
3. Is the hydraulic conductivity 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:

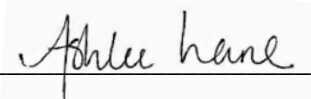
The existing well pad resides on top of a relatively flat ridge with valleys to the east and west. There is one unnamed ephemeral drainage 998 feet east of the existing facility. There are two (2) small drainage features located on the east side of the facility but show no signs of any active flow. Potential surface flows to these small drainages could easily be mitigated by the installation of temporary Best Management Practices (BMPs). Excellent permanent BMPs currently exist around the northwest, northeast, southeast, and a portion of the southwest perimeter of the facility. The southwest side is on the cut slope side and a release would not tend to migrate off this side of the facility. These BMPs should be monitored and maintained throughout the drilling and completion of the new wells and when the facility is put back into production to ensure site containment in the event of a release. Due to the relatively flat surface immediately surrounding the facility, the sandy soil conditions that exist on the ridge top, and the distance to the unnamed ephemeral drainage; the potential to impact surface water has been identified as being low.

The vegetation in the area consists of Piñon/Juniper woodland along with sage brush and bunchgrass. There were no field indicators which indicated the presence of shallow ground water. No water well data was obtainable for this location from the State Engineer's office. In addition, based the topographical setting of the facility, it is not anticipated that ground water is shallow within the vicinity of the existing facility; therefore the potential to impact groundwater has been deemed low.

With the findings presented within this sensitive area determination checklist, this facility can be designated as being in a non-sensitive.

Inspector Signature(s):  Date: 8/18/2010

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 Date: 8/17/2010

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