

Sensitive Area Determination Checklist

Williams Production RMT Company – Valley		
Person(s) conducting inspection	Ashlee Lane	12/17/2009
Site Information	Existing	
Location:	KP 24-16	Time: N/A
Type of Facility:	Well Pad	
Environmental Conditions	Ground covered with snow. Site visit not conducive for inspecting surface features, i.e. vegetation and surface water features.	
Temperature (°F)	N/A	

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. N/A

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 5(a) of this section.*)
 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 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.
 - (iii) Drill a soil boring to determine depth to groundwater or
 - (iv) Model hydro geologic conditions to determine if the potential to impact groundwater is high or low.

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



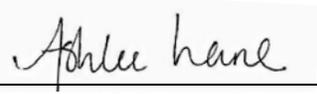
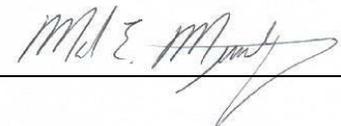
Additional Comments:

There is no groundwater data available for the location within the immediate proximity of the KP 24-16. Based on the topographical setting of the pad (southern end of Jolley Mesa) it does not appear that shallow ground water is present due to Jolley Mesa being fairly narrow in this vicinity.

The closest water well is approximately 3,767 feet to the southwest in section 20 and has a known ground water depth of approximately 85 feet. The well is also in a separate flow regime from that of Jolley Mesa, and is approximately 320 feet lower than the KP 24-16.

A field visit was not conducted to evaluate surface water features and vegetation cover. Due to the recent snow events, the area is still under a considerable amount of snow making onsite data collection impractical. All data collected for this sensitive area determination were based on the COGCC data base, State Engineers Office website, and the NRCS Web Soil Survey website via desktop review. The desktop review indicates that this location is in a non-sensitive area.

When the weather permits, HCSI will conduct a field investigation to confirm the desk top review.

Inspector(s) Signature(s):		Date:	<u>12/17/2009</u>
		Date:	<u>12/22/2009</u>