

Sensitive Area Determination Checklist

| | | |
|---|-------------------------------|-------------|
| Williams Production RMT Company – Valley | | |
| Person(s) conducting inspection | Ashlee Lane | 10/8/2009 |
| | | |
| Site Information | | |
| Location: | GM 44-2 well pad | Time: 12:45 |
| Site Activity: | Producing well pad | |
| Personnel on-site: | None | |
| Environmental Conditions | Cloudy, dry conditions, windy | |
| | | |
| Temperature (°F) | ~50 | |

1. Will the pit of the proposed facility contain hydrocarbons and chlorides or other E&P wastes?
☒ Yes ☐ No
 If yes, list pit type(s): Drilling pit, flare pit

SURFACE WATER

1. Are there any surface water features or SWSAs adjacent to or within the ¼ mile buffer zone?
☒ Yes ☐ No
 If yes, list type of surface water feature(s), i.e. seeps, springs, wetlands:
Parachute Creek which is perennial.
 If yes, describe location relative to facility:
 East of the existing well pad approximately 150 feet.
2. Could a potential release from the proposed facility reach surface water features?
☒ Yes ☐ No
 If yes, describe the pathway a release from facility would likely follow to determine if the potential to impact surface water is high or low.
 Based on the area topography a potential release would tend to run off the east side of the existing facility towards Parachute Creek.
3. Is the potential to impact surface water from a facility release high or low?
☒ High ☐ 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 ☒ 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

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 (*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 no, this section does not need to be completed.*)
 If yes, explain:
Soils to adjacent to the east side of the pad classified as loam and sand. Hydraulic conductivities of this soil complex are very high and shallow groundwater could be present in this complex due to its close proximity to Parachute Creek.

 - (b) If no:
 - (i) Evaluate surrounding soils and vegetation which may suggest the presence of shallow groundwater
 - (ii) Drill a soil boring to determine depth to groundwater.
 - (iii) Model hydro geologic conditions to determine if the potential to impact groundwater is high or low.

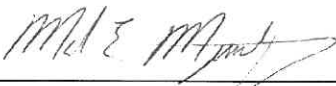
6. Is the potential to impact ground water from a facility release high or low?
☒ High (off pad) ☐ Low (on pad)

Additional Comments:

Should a potential release be confined to the well pad; the potential to impact surface water and ground water would be relatively low due to the clayey soil complex the pad is currently situated on. However if a potential release were to migrate off the pad to the east; the potential to impact both surface and groundwater is high due to the makeup of the soil complex adjacent to the east

side of the pad. There is also an irrigated field to the south which could be adversely affected by a potential release off the pad to the south and surface water could be potentially affected if a release were to occur off the pad when irrigation is taking place. Therefore, due to the close proximity of Parachute Creek and the high conductivities of the soils adjacent to the east side of the pad, the pad should be designated as being in a sensitive area.

Inspector(s) Signature(s):



Date: 10/17/2009



Date: 10/17/2009

