

Sensitive Area Determination Checklist

WPX Energy Rocky Mountain, LLC (WPX)		
Person(s) Conducting Field Inspection	None Conducted	
Site Information		
Location:	GM 42-11 Frac Pad	Time: 1345
Type of Facility:	Existing well pad w/proposed expansion	
Environmental Conditions	N/A	
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: There are two (2) USGS identified intermittent drainages.

If yes, describe location relative to facility: One (1) USGS identified drainage is located 242 feet to the southwest and one (1) USGS identified drainage is located 916 feet to the south of the existing 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. If a potential release were to migrate off the eastern side of the facility, flow would be towards the unnamed drainage to the south.

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

High to actual surface water feature Low to actual flowing surface water

GROUNDWATER

1. Will the proposed/new or existing facility have any pits which will contain hydrocarbons and chlorides or other E&P wastes?
2. Yes No
If yes, List the pit type(s):
3. Is the site of the proposed facility underlain by an unconfined aquifer or recharge zone?
 Yes No
4. Is the hydraulic conductivity of the underlying soil or geologic material $\leq 1.0 \times 10^{-7}$ cm/sec?
 Yes in unweathered bedrock No in the thin veneer of soil if present
5. 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
6. Is the proposed facility located within a 100 year floodplain?
 Yes (*Sensitive Area*) No (*If no, proceed to question #6.*)
7. 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.
8. Is the potential to impact ground water from the facility in the event of a release high or low?
 High Low

