

PROPOSED BMP LIST
Wildlife Mitigation Plan Supplemental Best Management Practices
Antero Rifle-Silt (Gravel Trend) Leasehold – March 19, 2010

1. Drilling and Production

- No reserve, drill cuttings or frac/flowback pits will be constructed
- Well pads will be constructed with perimeter berm on downslope area
- Well pads, access roads will be graveled to reduce fugitive dust, sediment run-off
- Above-ground facilities will be located to minimize visual effects (e.g. production tanks will be low profile tanks and painted to mitigate visual impacts.)
- Combustor controls will be used to mitigate odors from production tanks
- Well completions will utilize flowback completion technologies and/or flares to reduce odors from plug drillout, and venting of salable and non-salable gas
- High level alarms will be installed on production tanks
- Production tank containment area will be lined with plastic

2. Invasive Non-Native Vegetation Control

- Weed management plan will be developed and implemented to monitor and control noxious and invasive weeds
- Noxious weed control includes three treatments per year
- Existing weed infestations will be mapped prior to the development of each pad, access road and pipeline when practicable
- Reclamation/revegetation will be used as a weed management tool

3. Planning Infrastructure and Development Activities

- Directional drilling will be implemented to minimize habitat loss and habitat fragmentation
- Remote monitoring using SCADA systems to reduce truck traffic, fugitive dust
- Water pipeline infrastructure will be installed concurrently with the gas pipeline infrastructure where possible.
- SPCC inspections will be conducted quarterly
- Water used for well completions will be recycled as practicable
- Baseline and post drilling/completion water well testing will be performed for permitted water wells within ½ mile of down-hole location
- Annual planning meeting to be conducted with Rifle-Silt-New Castle Community

4. Stormwater Management

- Facilities will be operated with a Water Quality Control Division (WQCD) stormwater construction permit.
- Stormwater BMPs in accordance with the Stormwater Management Plan will be implemented in a manner that minimizes erosion, transport of sediment offsite, and site degradation.

- Inspections will be conducted every two weeks or monthly and in accordance with WQCD General Permit to confirm that applicable BMPs are in place, maintained and functioning properly.

5. Public Water System Protection Section 317B(d)

- Best management practices will be implemented to contain any unintentional releases of fluids for locations within 500 feet of surface water
- Locations within 500 feet of surface water will ensure 110 percent secondary containment for any volume of fluids contained at a well site during drilling and completion operations

6. Mitigation Plan Best Management Practices

- Closed loop (pitless) drilling system.
- Participation in raptor and other birds (great blue heron) monitoring and surveying with protocol to be developed by CDOW and implemented by Antero when practicable.
- Buried water and gas pipelines as means to reduce truck traffic.
- Seasonal raptor RSOs for species not included in new COGCC rules will be considered where practicable.
- Avoidance/seclusion area in the northeast corner of the CDP (Burning Mountain) unless lease expiration warrants development.
- Restricted rig operation to less than 2 per section within the big game seclusion areas during the winter (to be determined in consultation with CDOW).
- Maintaining a ¼ mile no surface occupancy buffer around active bald eagle nests.
- New pad construction not to exceed 3 acres.
- Pad density not to exceed 1 pad per 120 acres.
- Bury all gas and water pipelines adjacent to roads whenever possible.
- The mitigation opportunities/projects will be defined by the Mitigation Plan for each well pad.
- The mitigation opportunities/projects will be determined cooperatively with the CDOW during the annual Antero Mitigation Plan Review.
- CDOW Actions to Minimize Adverse Impacts to Wildlife Resources is attached to the March 22, 2010 Mitigation Plan