

Beneficial Use Plan

Water-Based Bentonitic Drilling Fluids & Associated Drill Cuttings

This plan outlines the operational practices that will be employed when applying water-based bentonitic drilling fluids and associated drill cuttings via land application for beneficial soil amendment within the boundary of an oil and gas facility as per Rule 907.a.(3).

General

- Fluids and cuttings being amended into the soil will be solely from the wells drilled on this well pad and will be spread within the permitted disturbance boundaries.
- Fluids and cuttings are being spread and incorporated with the intent of increasing moisture retention which will facilitate reclamation of the disturbed area. The site will also have an increased resistance to wind erosion.
- No other E&P waste shall be deposited at this site.
- The pad will be reclaimed in accordance with Rule 1003 for interim reclamation upon completion of completion operations.
- Beneficial use will occur according to surface owner approval

Material Handling

- Pre-application samples will be collected to ensure that Table 910 standards can be met post application.
- The cuttings will be stacked and dried as they come off the rig. Sawdust, EcoSponge, or another solidification/drying product will be utilized. The cuttings will be staged in a bermed storage area prior to incorporation.
- Once dry, the cuttings will be thin spread (<3 inches thick) across the area to be reclaimed and then disked or scarified with native soil to an approximate depth of 4-6 inches.
- After application and disking and compliance with Table 910-1 standards will be verified by collecting approximately one composite sample per acre. Each composite will be comprised of four to six sample locations within the acre. Once compliance is verified, topsoil will be spread and the site re-vegetated as per surface owner preference.
- The entire site will have stormwater controls to ensure no offsite migration of sediment. A water truck will be utilized if dust suppression is needed.