

Waste Management Plan

CUTTINGS DISPOSAL

Solids control equipment consisting of shale shakers, centrifuges, and flocculating unit will be utilized to separate drill cutting solids from liquid (water). If cuttings meet Table 910-1 standards, they will be treated as soil, stockpiled on location and beneficially re-used on location or at another location as approved by COGCC Sundry Form 4. Any excess cutting will be transported to an authorized waste facility (Garfield County Landfill near Rifle, Colorado). The moisture content of any cuttings in a cuttings pit, trench, or pile shall be as low as practicable to prevent accumulation of liquids greater than de minimis amounts. At the time of closure, if the drill cuttings are to be left onsite, they will also meet the applicable standards of table 910-1.

DRILLING FLUIDS DISPOSAL

Closed loop system will be used to separate solids from liquid. Dry cuttings will be stockpiled on location or transported off-site to an approved facility. Clean drilling fluids will be recycled and used in drilling operations at the next pad location.

COMPLETIONS

Flowback from completions will be treated at a COGCC approved facility to be recycled or re-used for additional stimulations at other pads. MSDS sheets will be maintained for any additives used in stimulation. Tanks will be labeled in accordance with COGCC regulations.

PRODUCTION

Flowback and stimulation fluids will be sent to tanks, separators, or other containment/filtering equipment before the fluids will be placed into any pipeline, storage vessel located on the well pad; or into tanker trucks for offsite disposal. The flowback and stimulation fluid tanks, separators, or other containment/filtering equipment will be placed on the well pad in an area with additional downgradient perimeter berming.