

Extraction Oil & Gas, LLC

E&P Waste Management Plan Land Application of Water-Based Bentonitic Drilling Fluids & Associated Drill Cuttings

This document outlines the operational requirements to be used when applying water-based Bentonitic drilling fluids and associated drill cuttings to private land application sites to maintain compliance with COGCC Rule 907.d.(3). These materials are being applied as a beneficial soil amendment.

The land application site covered under this Waste Management Plan is detailed in Table 1. Only water-based Bentonitic drilling fluids and associated drill cuttings generated by Extraction Oil and Gas, LLC (Extraction) will be applied at this site. No other E&P waste shall be deposited at this site. Changes to Table 1 will be provided to the COGCC in a Form 4 Sundry Notice.

Mud Disposal: Offsite
Method: Land Application
Transporter: Select Energy Services
Lanny Ley
(720)641-2940

Land Application Site (Private)

1. Extraction shall obtain written authorization from the surface owner prior to land application of water-based Bentonitic drilling fluids and associated drill cuttings. The signed agreement shall state that only Extraction-generated materials will be accepted and that incorporation of the material will occur within 10 days of application
2. A 3-inch maximum lift of water-based Bentonitic drilling fluids and associated drill cuttings will be applied to this site. The volume of material transported to the land application site will be tracked to help ensure the 3-inch maximum lift is not exceeded.
3. Concentrations of contaminants of concern shall not exceed the levels in COGCC Table 910-1 after incorporation into native soil.
4. Daily tracking tickets will be used and will include the following information:
 - a. Name of well where material was generated.
 - b. Date of transfer of the material from the well to the spread Land Application Site.
 - c. Volume of material taken to the Land Application Site.
 - d. Name of transporter.
5. Extraction personnel will ensure the material will be incorporated into the soil within 10 days, site and weather conditions permitting.

**Extraction Oil & Gas, LLC
E&P Waste Management Plan**

**Table 1
Land Application Site Location(s)**

<u>Facility Name</u>	<u>Facility ID #</u>	<u>Legal Description</u>
Extraction Windsor Land Application	433752	SWSW Sec. 11 T8N R68W