



E&P WASTE MANAGEMENT PLAN

In compliance with COGCC Rules 907 and 1000 Series Reclamation Regulations, and the Drill Cuttings Management Policy (9/15/14), the following describes Extraction Oil & Gas, LLC's general plan for handling and disposing of E&P waste, including drilling mud and cuttings.

Water-based Bentonitic Drilling Fluids

Water-based bentonitic drilling fluids will be hauled off site by a licensed third party transporter to be re-used by spreading on COGCC approved land-farms per Rule 907.d., and as previously submitted by plan (attached).

Water-based Bentonitic Drill Cuttings

Water-based bentonitic drill cuttings will either be hauled off site by a licensed third party transporter to be re-used by land application on COGCC approved land-farms.

Oil-based Drilling Fluids

Oil-based drilling fluids will be hauled off site by a licensed third party transporter to be disposed of at a properly permitted commercial waste facility per Rule 907.e.

Oil-based Drill Cuttings

Oil-based drill cuttings will be hauled off site by a licensed third party transporter to be disposed of at a properly permitted commercial waste facility.

Land Application of Water-Based Bentonitic Drilling Fluids

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 Rules 907 and 1000 Series Reclamation Regulations, and the Drill Cuttings Management Policy (9/15/14). 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:	To be determined by Extraction on a site specific basis

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.

Table 1.
Land Application Site Location(s)

<u>Facility Name</u>	<u>Facility ID #</u>	<u>Legal Description</u>
Windsor Land Application Facility	449314	N2SE4 Sec. 11 T8N R-66W