

1700 Broadway  
Suite 650  
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503 Main Street  
Windsor, CO 80550  
Tel: 970.686.8831

# Great Western

OIL & GAS COMPANY

## E&P WASTE MANAGEMENT PLAN

For all waste streams

To maintain compliance with rule 907.a, Great Western Oil & Gas Company (GWOG) adheres to the rule in regards to identifying all waste streams and outlines the manner in which they are handled.

### **Water-based Bentonitic Drilling Fluids and Drill Cuttings**

Water-based bentonitic drilling fluids and drill cuttings will be handled as described in the GWOG E&P Waste Management Plan for off-site land application of water-based bentonitic drilling fluids and cuttings. This plan is submitted as a separate item to comply with rule 907.d.(3). Cuttings will be hauled and disposed of at the CO&GCC approved spread field facility ID# 425490.

### **Frac Flowback Water**

Water generated during flowback operations is stored in flowback tanks and hauled to High Sierra Water Services, LLC's (High Sierra) approved disposal facility.

### **Produced Water**

Water produced by the well and stored in produced water tanks is hauled to High Sierra's approved disposal facility.

### **Tank Bottoms**

Oily waste in the form of tank bottoms is stored in production tanks and treated on-site if possible. Waste will be hauled to High Sierra's approved disposal facility if untreatable.

### **Solid Waste Contaminated with Hydrocarbons**

In the case of hydrocarbons contaminating solids, the resulting waste will be handled in the following manner. Hydrocarbons spilled on the ground will be treated, and if it is untreatable the waste will be hauled to Waste Management with manifest.

Hydrocarbon contaminated solids resulting from flowback operations are contained in flowback tanks. Resulting waste from flowback operations is properly handled by the owners of the flowback tanks.

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### E&P WASTE MANAGEMENT PLAN

For Off-Site Land Application of Water-Based Bentonitic Drilling Fluids and Cuttings

To maintain compliance with rule 907.d.(3), Great Western Oil and Gas Co. (GWOG) adheres to the following procedures in regards to the application of water-based bentonitic drilling fluids and associated drill cuttings (waste) to private and/or company owned spread fields.

Written authorization from the surface owner of private spread fields will be obtained. Spread fields are designated areas specifically for GWOG generated waste. No other E&P waste will be deposited at the designated area.

Water-based drilling fluids and cuttings may be applied as a soil amendment, or may be used in the construction and maintenance of production facilities.

Waste will be sampled and tested prior to removal from the drilling location, and on a periodic basis at the spread field location after incorporation into the soil. Resulting concentrations will not exceed the limits referenced in Table 910-1 of the COGCC rule 910.

Spread field applications will be no more than three (3) inches average thickness of waste prior to incorporation. Waste shall be incorporated into the soil within ten (10) days of application.

Records will be maintained which identify the source (well name and location), date of transport, transporter, type and volume of waste, disposition and location where the land application of waste occurs.

Spread field locations will be updated and amended as new agreements are entered into.

Current spread field location is:  
Western Equipment & Truck Inc.  
E/2 SW/4, Sec.10, Twp 4N, Rng 66W  
Weld County, Colorado

North of County Road 46 and approximately  
½ mile West of 47<sup>th</sup> Ave.

