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Denver, Colorado 80290



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# Great Western

OIL & GAS COMPANY

## E&P WASTE MANAGEMENT PLAN

For all 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:  
M&M Excavation Co.  
Weld County Airport  
Weld County, Colorado

SEC. 35 - T6N - R65W  
County Road 62 & 47  
West ¼ North 400 yards

Former location:  
Western Equipment & Truck, Inc.  
E/2SW/4, Sec. 10, T4N, R66W  
Weld County, Colorado

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

1700 Broadway  
Suite 650  
Denver, CO 80290  
Tel: 303.398.0302



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.

**M&M Excavation Co.**  
**Surface Owner Authorization**

I, Greeley Weld County Airport declare that I am the legal owner or am legally authorized to make decisions and can enter into agreements regarding the land application or lining material of water-based Bentonitic drilling fluids (definitions attached).

Land dumping directions: CR 62847 West 1/4  
North 400 yards

I agree to the following:

1. I authorize M&M Excavation Co to dump and/or spread drilling fluids on land as identified below.
2. Where applicable, I agree to accomplish cultivation of the drilling fluids into the site soils as soon as possible.
3. I release the following companies from all further responsibility for clean-up or future action related to these drilling fluids:

M&M Excavation Co. and Great Western Oil & Gas  
Printed Name of Oil Company Company

Mandy Longstreth 12/9/11  
Signature Land Owner Date

Mandy Longstreth - Business Manager Greeley-Weld County Airport  
Printed Name of Owner

P.O. Box 727 | 1000 Airport Road Greeley, CO 80632  
Address

970-336-3003 84-0930586  
Telephone Number SS#/Tax ID for booking

Tax Exempt 98-03485

[Signature] 12/9/11  
Signature M&M Excavation Co. representative Date

Roland Schillsa SUP.  
Printed Name and Title

[Signature] 12/13/11  
Signature Company representative Date

JACK BRUNER SUP. 12/13/11  
Printed Name of Company Representative and Title Date





### Property Profile

Account: R3500505  
January 17, 2012



Account	Owner(s)	Document History	Building(s)	Valuation Detail	Tax Authorities	Photo	Sketch	Print
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Account	Parcel	Space	Account Type	Tax Year	Tax Area	Buildings	Actual Value	Assessed Value
R3500505	080335200020		Exempt	2012	0652	0	433,773	125,780

**Legal**  
 GR PT 35 6 85 (GREELEY WELD COUNTY AIRPORT THIRD ANNEXATION) BEG S4 COR 35 THENCE N89D40'W 1016.39' N01D49'W 3974.22' AND NE4 NW4 THENCE AT A PT ON N LN 35 N89D44'E 1335' TO N4 COR 35 THENCE N89D44'E 920' S01D49'E 1324.46' N89D41'W 350' S00D06'W 2639.00' S89D41'E 440.10' S01D49'E 624.86' S88D29'E 427.62' S07D12'W 698.53' N89D39'W 602.45' TPOB EXC GREELEY WELD COUNTY AIRPORT FOURTH ANNEXATION

Subdivision	Block	Lot	Land Economic Area
			TWN 6 RANGE 65

Property Address	Property City	Zip	Section	Township	Range
	GREELEY	00000000	35	06	65