



WPX ENERGY

WASTE MANAGEMENT PLAN

For

GM 313-12 Frac Pad

1058 County Road 215
Parachute, CO 81635-0370

March 27, 2014

1.0 Introduction

This Material Management Plan (Plan) provides a description of the management procedures for Exploration and Production Waste (E&P waste) generated at the GM 313-12 well pad during drilling, completion, and production operations conducted by WPX Energy (WPX).

This Plan is being prepared and submitted for COGCC approval to satisfy the COGCC Form 2A COA (document #400579719).

2.0 Management of E&P Waste

E&P waste will be managed in accordance with the 900 Series Rules of the Colorado Oil and Gas Conservation Commission (COGCC), as amended April 1, 2009. Each waste stream generated during operations conducted at the GM 313-12 well pad is described in sections below.

2.1 Frac Sand

Frac sand is generated during completion operations and is managed on the well pad surface inside a bermed containment. The volume of frac sand that comes back during flowback operations is unknown until the actual operations occur. When the completion operations are finished, frac sand is either disposed of at an approved commercial facility or amended with clean soil to treat elevated hydrocarbon concentrations and then screened for total petroleum hydrocarbon to ensure compliance with the COGCC Table 910-1 standards. Frac sand that is in compliance with the COGCC requirements is incorporated into interim reclamation of the well pad.

2.2 Produced Water

Produced water is generated as a byproduct during oil and gas production activities. Produced water is present in the same zones as natural gas and oil. Water is brought to the surface with the natural pressure of a well and flows through separators where it is unloaded into produced water tanks. Produced water tanks are monitored for produced water levels and when they get full, produced water is either piped or trucked off to the following sites:

1. transported to one of WPX's permitted multi-well pits, special purpose pits, or frac tanks where produced water is stored and cleaned for recycling during completion operations,
2. transported to one of WPX's centralized E&P WMF where produced water is further purified and recycled for completion operations, or

3. injected into permitted WPX's Class II UIC wells.
4. Remaining produced water that cannot be injected into WPX Energy owned and operated Class II UIC wells is hauled to an approved third party disposal sites