



## **Kerr-McGee Oil & Gas Onshore LP**

### **Waste Management Plan Temporary Workover and Drilling Fluid Recycling Facility**

This document outlines the operational requirements and guideline to be employed at the Kerr-McGee Oil & Gas Onshore, LP (Kerr-McGee) temporary workover and drilling fluids (mud) recycling facility. The purpose of this facility is to recycle and recondition used mud for reuse in workover and drilling operations. Additionally, the facility can be used for the production of fresh mud for workover and drilling operations if needed. This plan is submitted as a proposal for recycling of E&P Waste in accordance with Rule 907.a.(3).

#### **Location**

The initial facility will be located on the Aggregate State 37C-16HZ location (location ID 434766). The location drawing is attached. The facility footprint will be within the proposed footprint of the location outlined on the Form 2A. Because the facility is temporary in nature, it can be mobilized quickly to a new location if warranted. Prior to moving locations, Kerr-McGee will submit a Sundry Notice, Form 4 outlining the new location.

#### **Operations**

The facility consists of a trailer mounted dewatering unit, upright tanks for storage of mud and fluids, and an active mud system with shakers, a centrifuge, pumps, and a catch tank for solids. A generalized schematic and flow diagram is attached. The location is currently within the Kerr-McGee stormwater inspection program. Additional stormwater BMPs will be added as necessary. All storage tanks will be kept within a lined containment area. All materials will be kept off of the ground surface and covered in accordance with Rule 1002.f.(2)A.

Muds will be brought to the facility by truck and ran through the active mud system and dewatering trailer initially to remove solids content. Depending upon the operational requirements in the field, the mud will then be conditioned to meet the desired specifications and weight as necessary. Any resulting E&P solid waste will be taken to a licensed commercial disposal or to the Kerr-McGee landfarm for treatment.

The facility is designed to process and condition up to 3,000 bbls of fluid per day. Daily tracking tickets for the incoming and outgoing mud will be employed. The tickets will include the following.

- \* generator name
- \* date of transfer
- \* volume of mud
- \* name of transporter
- \* origin (wellsite or recycling facility)
- \* resulting destination (wellsite or recycling facility)

### **Recycled Drilling and Workover Fluid Uses**

The recycled mud will be transported back to the location via truck. Recycled mud will be used for the following application.

- \* Spacing fluid between cemented intervals below surface casing
- \* Kill fluid below surface casing
- \* Drilling fluids below surface casing

Recycled mud will NOT be used for the following applications.

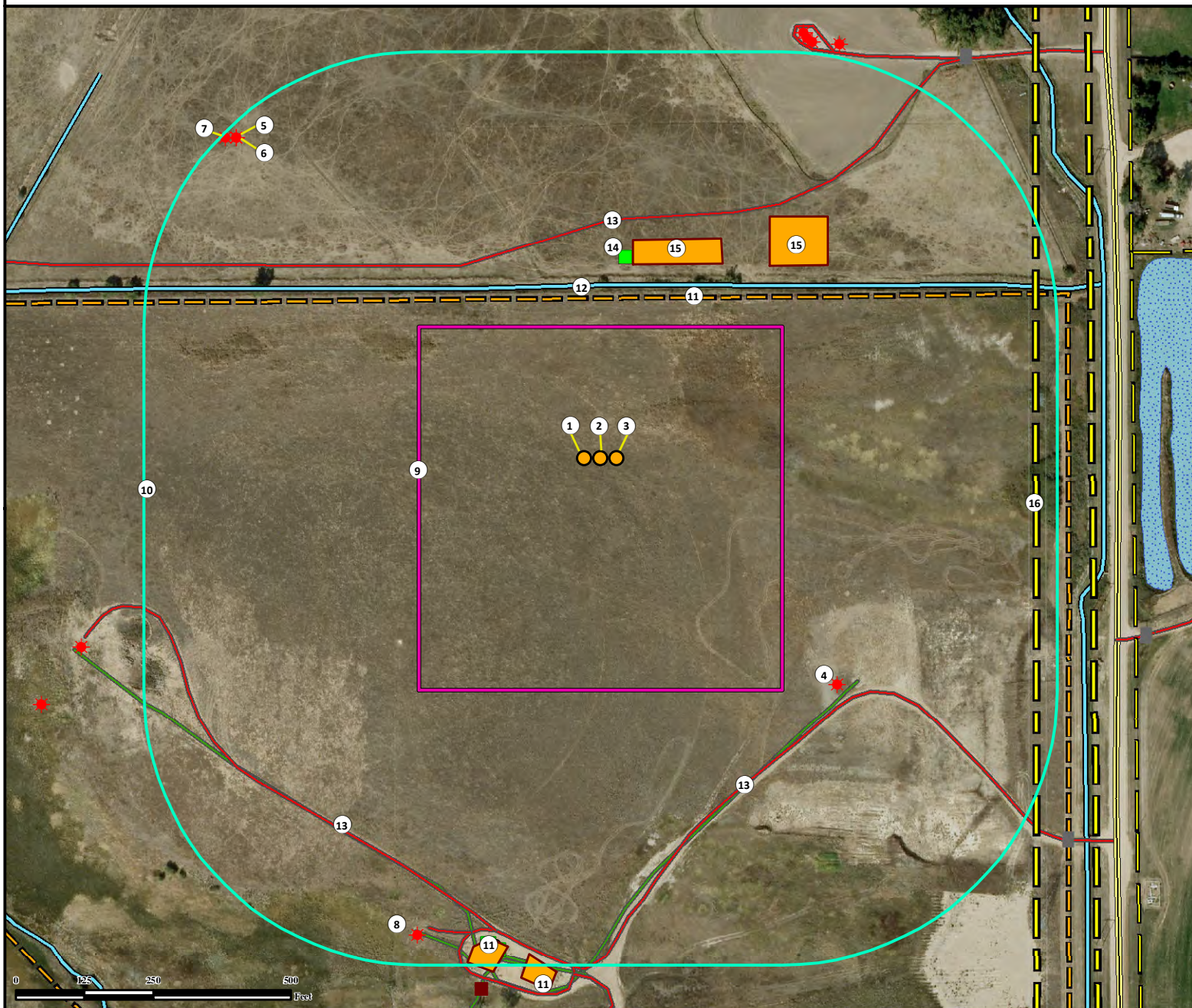
- \* Drilling fluid for the surface casing interval
- \* Fluid for cement
- \* Workover fluids that have the potential for contact with fresh water aquifers.

# Location Drawing

## AGGREGATE STATE 37C-16HZ

### Horizontal Multi Well Pad

NE¼ SE¼ SECTION 9, TOWNSHIP 2 NORTH, RANGE 66 WEST OF THE 6TH PRINCIPAL MERIDIAN



- |                                             |                                                  |                                                         |
|---------------------------------------------|--------------------------------------------------|---------------------------------------------------------|
| 1. Proposed Well AGGREGATE STATE 15N-16HZ.  | 8. Existing Well MARGARET TWOMBLY 2 is ±929' SW. | 13. Private Roads are ±410' NW, ±623' SE, and ±819' SW. |
| 2. Proposed Well AGGREGATE STATE 37C-16HZ.  | 9. Operational Disturbance Area.                 | 14. Electric Flow Meter is ±369' NE.                    |
| 3. Proposed Well AGGREGATE STATE 16N-16HZ.  | 10. 500' Radius.                                 | 15. Existing Facilities are ±358' NE and ±467' NE.      |
| 4. Existing Well AGGREGATE 9-9 is ±595' SE. | 11. Fence is ±292' N.                            | 16. Powerline in ±791' E.                               |
| 5. Existing Well DAVIS 1C-9H is ±882' NW.   | 12. Ditch is ±315' N.                            |                                                         |
| 6. Existing Well DAVIS 2B-9C is ±882' NW.   |                                                  |                                                         |
| 7. Existing Well DAVIS 1A-9C is ±897' NW.   |                                                  |                                                         |

Legend			
●	Proposed Well	■	Facility Enclosure
★	Existing well	—	Public Road
■	Electric Flow Meter	—	Ditch
■	ECD	—	Private Road
□	Disturbance Area	—	Powerline
□	500' Radius	—	Fence
		—	Pipeline

**Reference Location**  
 \*\* All measurements are made from Reference Well AGGREGATE STATE 37C-16HZ \*\*  
**Lat: 40.151930° Long:-104.776135° (NAD83)**  
**Elevation: 4925 Feet**

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Field Date: 05/30/2013  
 Drafting Date: 08/22/2013  
 Drafter: JLF  
 Revision: 1

Data Sources:  
 - Aerial courtesy of Anadarko Petroleum Corporation (2010)

Surface Use: Dry Land Crop  
 Nearest Building Unit: +1000' NE

Prepared for:  
**KERR-MCGEE OIL & GAS ONSHORE LP**



# Temporary Workover and Drilling Fluid Recycling Facility Aggregate State 37C-16HZ

NE/SE Sec. 9, T2N, R66W, 6<sup>th</sup> PM  
CR 22 & CR 31, N 0.25 miles, E into

N 40.151866°, W -104.776134°  
Weld County, Colorado

