



Kerr-McGee Oil & Gas Onshore LP

Dust Mitigation Plan

**Alder 23-16HZ– Well Pad and Facility
NE/4 SW/4 Section 16, T2N R63W, 6th P.M.**

Weld County, Colorado

**August 2023
Revised October 2023**

Introduction:

KMOG has developed this Dust Mitigation Plan in compliance with the Energy and Carbon Management Commission (ECMC) Rule 427.



Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
39	Nunn loam, 0 to 1 percent slopes	0.5	2.3%
49	Osgood sand, 0 to 3 percent slopes	0.4	1.7%
70	Valent sand, 3 to 9 percent slopes	22.3	96.1%
Totals for Area of Interest		23.2	100.0%

427.a(2) Proposed Vehicle Speed Limits to Minimize Dust

- 10 mph on lease road from WCR 67 West into location and 5 mph once vehicles reach well pad/facility

427.a(3) Total Area of Disturbance (In Acres)

- Well pad and Facility – Working Pad Surface (WPS) -13.09 acres
- Access road – 3.7 acres
 - Soil types:
 - 39-Nunn loam, 0 to 1 percent slopes

- 49-Osgood sand, 0 to 3 percent slopes
- 70-Valent sand, 3 to 9 percent slopes

427.a(4) Whether Access Roads are Paved

- Access roads are not paved, they are constructed with a minimum of four - inches of gravel road base

427.a(5) Number of Anticipated Truck Trips During Each Phase

- Construction Phase– 5,634 truck trips
- Production Drilling Phase – 9,536 truck trips
- Completions Phase – 29,014 truck trips
- Interim Reclamation Phase – 4,003
- Production Phase – 1,214 average annual truck trips

427.a(6) A plan for Suppressing Fugitive Dust Caused Solely by Wind

- On active locations, in the event dust is caused solely by the wind KMOG will have fresh water deployed to suppress dust for the duration of the wind event
- In addition, disturbed soils will be placed to minimize ability for soil particles to become airborne. Various techniques to be used depending on soil type specific to each location:
 - Track pack/compact topsoil piles, consolidate soil used to construct perimeter ditch/berm and sediment traps
 - Hydro mulch and/or hydroseed topsoil piles and/or other stormwater BMP features
 - Seed/straw crimp disturbed soils where feasible
 - Place and compact gravel layer on working pad surfaces and access roads

427.a(7) Best Management Practices

- KMOG will proactively deploy fresh water to suppress dust along access road to well pad/ facility during all phases of pre-production operations
- Speed limits will be reduced to 10 mph on access road and 5 mph once vehicles reach well pad/ facility
- Access roads and Vehicle Tracking Control will receive maintenance as needed throughout operations
- In the event of high winds that generate dust that cannot be mitigated with an application of water, KMOG will shut down construction operations
- During the Completions phase, KMOG will utilize a fully enclosed sand containerized proppant delivery system that eliminates the use of pneumatic transfer on location. This methodology utilizes a gravity choke feed system that reduces dust significantly. The dust levels from this system are minimal and below Occupational Safety and Health Administration (OSHA) permissible exposure limit which eliminates the need for additional Personal Protective Equipment (PPE)