

Great Plains Energy Operating, LLC
Marquis #1
SWNW Section 23, T7S R52W
Lincoln County, Colorado

DUST MITIGATION PLAN

Great Plains Energy Operating, LLC (Great Plains), has drafted this plan in accordance with Rule 304.c.(5) and Rule 427.

SITE DESCRIPTION:

The soils the road and location will be constructed on are primarily silt loam and silt clay soils.

The project proposes a new location for one well, the Marquis #1, a previous dry and abandoned location. This location will require a new access road. All production facilities will be on location for this proposed well and the second well location of the Great Plains Extension OGD, the Marquis #2-23. An off-location flowline will be constructed to connect the Marquis #2-23 wellhead to the production equipment.

The proposed access road to the Marquis #1 location is 1,584 feet from the county road. The proposed disturbance corridor for the access road is approximately 0.727 acres.

The proposed Marquis #1 location is proposed to be 7.7 acres of disturbance.

No utility corridors are being proposed for this location.

An off-location flowline (OLF) will be constructed to connect the Marquis #2-23 location to this proposed Marquis #1 production facility. The OLF disturbance acreage will be accounted for as part of the Marquis #2-23 application.

SOIL TYPES WITHIN PROJECT AREA:

Map Unit	Soil Series	Additional Information	Project Components
122	Colby-Weld silt loams, 1-5 percent slopes	Hillslopes, Loess	Proposed access road and well pad location
213	Weld silt loam, 0-3 percent slopes	Interfluves, Calcareous loess	Proposed access road and well pad location
101	Apishapa clay loam, 0-3 percent slopes	Depressions, Alkaline clayey alluvium	Proposed access road

INGRESS/EGRESS TO THE OIL AND GAS LOCATION:

The proposed access road will be an unpaved road. There will be no turn lanes. Tracking pads are not being proposed for use on this location.

Speed restrictions on lease roads will be utilized to minimize dust. An average of 25 mph is currently anticipated to be used for most vehicles.

Design and surface roads based on the traffic, speed, and type of vehicles to reduce, dust, mud, and environmental damage.

CONSTRUCTION:

- During the construction of the access road and well pad, dust mitigation may occur at least weekly, dependent upon need.
- Construction activities may be limited or deferred on high-wind days to restrict potential fugitive dust.
- Anticipated truck trips, including water trucks for dust mitigation, during this phase is approximately 85 round trips.

DRILLING:

- During drilling operations, dust mitigation may occur at least weekly, dependent upon need.
- Anticipated truck trips, including water trucks for dust mitigation, during this phase is approximately 359 round trips.

PRODUCTION:

- During the production phase of the well pad, traffic is significantly reduced from previous stages of activity. Therefore, dust mitigation will also lessen significantly. Dust mitigation will occur on an as-needed basis only.
- Anticipated truck trips during the initial year of the production phase are one light-duty truck per day.

BEST MANAGEMENT PRACTICES:

- Great Plains will utilize freshwater for dust suppression practices.
- Speed restrictions on the access roads will be utilized to minimize dust. An average of 25 mph is currently anticipated to be used for most vehicles.
- Construction activities may be limited or deferred on high-wind days to restrict potential fugitive dust.
- Topsoil and stockpiled soils will be stabilized through either wheel packing, tackifiers, seeding practices, or erosion control blankets.

Truck Trips Per Operational Activity

Phase	Number of Days	Light Vehicle Roundtrips Per Day	Heavy Vehicle Roundtrips Per Day	Total Vehicle Roundtrips	Total Vehicle Trips
Construction	7	6	1	85	170
Drilling	10	28	24	359	718