

DUST MITIGATION PLAN

Date: January 13, 2022

Location: WR OGDP 1 / Wells Ranch CDP / A07-08 Facility

Legal Description: SENE Section 7, Township 6 North, Range 64 West, 6th P.M., Weld County Colorado



[Table of Contents](#)

Article I. Introduction 2

 Location Information 2

Article II. Dust Mitigation Plan Specific Data 2

 Truck Traffic 2

Article III. Mitigation Measures and Best Management Practices (BMP) 3

Article IV. Cumulative Dust Impacts 5

Article V. Exhibits/References/Appendices 5

Article I. Introduction

Location Information

This document provides site-specific information for the A07-08 Facility within the WR OGD 1 of the Wells Ranch CDP. The information in this document relates specifically to the time during the construction of this location and the construction, drilling, completion, and production of the thirty-six (36) proposed horizontal wells producing to this location.

The proposed location is irrigated crop southwest of the intersection of WCR 51 and WCR 72. The Facility will be in the SENE Section 7, Township 6 North, Range 64 West, zoned agricultural within the Weld County Near-Urban Planning Area. A 1041 WOGLA was filed for the CDP as 1041WOGLA19-0042 on 12/10/2019 and recorded at reception #4556398 on 1/8/2020. Site-specific supplemental information will be filed with Weld County prior to commencement of operations.

The proposed A07-08 Facility oil and gas location disturbance will be 6.2 acres, which will not be reduced after interim reclamation. The proposed working pad surface will be 3.3 acres. A07-08 Facility is on Parcel 080107000002 owned by Cheryl and Gary Bishop. The location is currently used for farming.

The proposed A07-08 Facility will accept production from wells on the A07-01 Pad, A07-04 Pad, A07-23 Pad, and A18-09 Pad. The proposed A07-08 Facility equipment will include separators, vapor recovery unit(s) (VRUs), gas compressor(s), VOC combustor(s), surge vessel(s), pigging station(s), gas/diesel motor(s), injection pump(s), maintenance tank(s), scrubber(s), skid drain vault(s), instrument air skid(s), and proposed electrical and/or solar equipment.

Phase	Duration (days)	Estimated Start Date
Construction	145 days	3rd Quarter, 2024
Drilling	0 days	1st Quarter, 2025
Completion	0 days	3rd Quarter, 2025
Flowback	N/A	Flowing back directly to permanent facility.
Production	30 years	4th Quarter, 2025
Interim Reclamation	60 days	3rd Quarter, 2026

Article II. Dust Mitigation Plan Specific Data

Facility Soil type(s): 4 - Aquolls and Aquepts, flooded; 38 - Nelson fine sandy loam, 3% - 9% slopes; 52 - Otero sandy loam, 3 to 5 percent slopes

Access Soil type(s)*: 38 - Nelson fine sandy loam, 3 to 9 percent slopes; 51 - Otero sandy loam, 1 to 3 percent slopes; 52 - Otero sandy loam, 3 to 5 percent slopes

*NRCS data is not accurate at scale for access roads and pipeline corridor.

Total area of soil disturbance in acres including accesses: approximately 7.5 acres. Access roads are not paved for 0.8 acres from proposed access to existing access and 0.5 acres from existing access onto paved WCR 51 as depicted on the Access Road Map.

Truck Traffic

During the initial 45 days of construction operations, the expected number of roundtrips during set up will be approximately 130 Semi-Truck/Trailer/Tandems trips and 120 passenger car/pickup. For the remaining 100

days, Passenger Car/Pickups will be reduced to 90 trips per day and Semi-Truck/Trailer/Tandems to 85 trips per day.

During the production phase of operations, there will be no heavy truck trips. There will be approximately 23,760 pickup trips estimated for 30 years of production for this facility and the associated well pads. During the interim reclamation phase of 60 days, there will be 800 heavy truck roundtrips.

The expected travel route for the proposed oil and gas location is indicated on the attached Access Road Map. The travel distribution from the proposed oil and gas location will be primarily on County Road 51.

	Construction			
	Duration		Round Trips	
Vehicle Type	Setup/Breakdown	Rest of Phase	Setup/Breakdown	Rest of Phase
Passenger Car/Pickup	45 days	100 days	120	90
Tandem Trucks			30	10
Semi-Truck/Trailer/RV			100	75

Article I. Mitigation Measures and Best Management Practices (BMP)

Noble Energy shall employ practices for control of fugitive dust caused by their operations. Such practices shall include but are not limited to the use of speed restrictions, automation of wells and production facilities, regular road maintenance, pipeline infrastructure to provide takeaway for oil, gas, and produced water (reducing number of trips from heavy trucks), consolidation of production facilities (reducing excessive driving on undeveloped/unpaved roads), restriction of construction activity during high-wind days, and silica dust controls* when handling sand used in hydraulic fracturing operations.

Noble Energy additionally has implemented the use of traffic signs when leaving the location to remind drivers of specific routes to utilize.

**Silica dust control will include dust suppression with non-potable water, well-ventilated work site, pre-planned personnel rotation of work site, as well as other recommended measures included in OSHA Standard 29 CFR 1926.1153 Respirable Crystalline Silica*

- When Noble Energy is required to suppress dust, its selected vendor will be reminded of the following:
 - Only use fresh water source (non-potable) when watering areas within 300 feet of the ordinary high-water mark of any water body.
 - Maintain a current Safety Data Sheet (SDS) in their company vehicle when using a dust suppressor containing chemicals, in accordance with OSHA Standard 29 CFR 1910.1200 (Hazard Communication) as well as local and State requirements.
 - Ensure watering practices are not creating additional hazards on access roads (slick roads, muddy conditions, etc.)

- All soil piles created by construction activities will be managed utilizing Hydro-mulch, straw crimping, and/or tracking methods to prevent dust from exiting location and creating a hazard during pre-production activities. Soil piles will be graded and/or seeded to prevent erosion and the generation of dust post-production.
- Noble Energy will minimize the amount of fugitive dust using speed restrictions. All vehicles will be subject to a speed limit of 20 MPH on all lease roads to minimize dust.
- Noble Energy will mitigate the creation of fugitive dust through regular road maintenance as coordinated through agreements with Relevant Local Governments or Agencies with road jurisdiction.
- Noble Energy will use methods including wind breaks and barriers, road or facility surfacing, and soil stockpile stabilization measures to suppress fugitive dust caused solely by wind.
- Noble Energy will avoid the creation of fugitive dust by restricting or limiting construction activity during high wind days.
- Noble Energy will minimize fugitive dust caused by their operations, or dust originating from areas disturbed by their Oil and Gas Operations that becomes windborne by utilizing the dust suppression methods mentioned above.
- Noble Energy will not use any of the following fluids for dust suppression:
 - Produced water
 - E&P waste or hazardous waste
 - Crude oil or any oil specifically designed for road maintenance
 - Chemical solvents
 - Process fluids
- Access road will be watered or treated with one of the following commercial dust suppressants, as needed:
 - Roadsaver
 - Roadsaver Compaction Aid
 - DuraBlend
- Prior to the application of dust suppressant to any county or public roads, coordination will be conducted with Weld County Department of Public Works by Noble Energy and any relevant vendors.
- Noble Energy will maintain safety data sheets (“SDS”) for any chemical-based dust suppressant and make the SDS available immediately upon request to the COGCC Director and to the Local Government. Operators will maintain SDS for any chemical-based dust suppressant until the site passes final site Reclamation and transfer the records upon transfer of property ownership.
- All secondary roads created for this project (non-public roadways) will be finished with ½” – ¾” crushed stone road base.
- Prior to the commencement of Production Operations, Noble will take all necessary and reasonable precautions to ensure that lighting, dust, noise and odor from the Oil and Gas Location does not unnecessarily impact the health, safety, and welfare of Wildlife occupying

any High Priority Habitat within 2,000 feet of the Oil and Gas Location. For permanent facilities this includes:

- Identify permanent and temporary housing of resident wildlife and ensure locations are recorded in wildlife reports kept in-house by HSE
- Ensure the workday is limited to sunrise to sunset to avoid unnecessary nighttime lighting of big game habitat, nests and/or burrows.
- Conduct a daily walkthrough of the location to ensure no wildlife have built nest(s) in/around lighting or noise sources. If nest(s) are found, HSE reporting will be issued to appropriate personnel to either remove the nest and/or temporarily abandon the lighting source until nest is abandoned.

Article IV. Cumulative Dust Impacts

The estimated number of anticipated truck trips for the Oil and Gas location seeking Commission approval combined with the number of anticipated truck trips at any other Oil and Gas Locations within a 1-mile radius is below, calculated using locations with anticipated construction, drilling, and completions. Construction of the A07-04 location, A18-09 location, A07-23 location, A07-01 location and A07-08 facility are anticipated to use the same unpaved roads for truck traffic. These locations will comprise the entirety of OGD 1.

- Construction – 425 trips for A07-08 Facility, 665 cumulative trips for OGD 1
- Drilling – 0 trips for A07-08 Facility, 7,840 cumulative trips for OGD 1
- Completion – 0 trips for A07-08 Facility, 11,696 cumulative trips for OGD 1
- Production – 23,760 cumulative trips over 30 years for OGD 1
- Interim Reclamation – 800 trips for A07-08 Facility, 4,000 cumulative trips for OGD 1

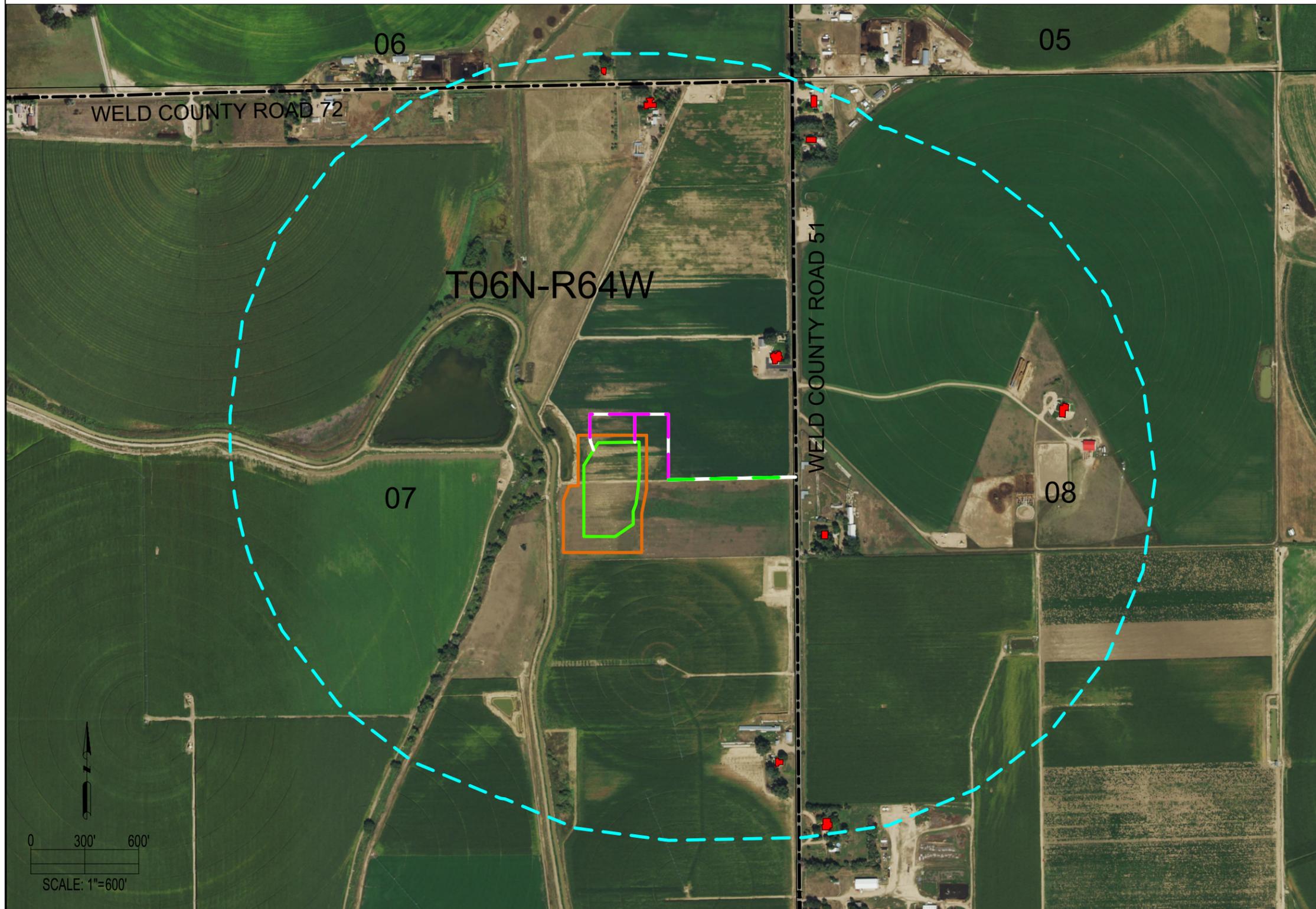
Construction and operational activities for the A07-01 location, A07-04 location, A18-09 location, A07-23 location, and A07-08 facility are anticipated to overlap.

For this location there is an increased potential for dust generated from seasonal agricultural activities to the North/East/West/South. These activities should not negatively impact the public health, wildlife welfare and/or resources.

Article V. Exhibits/References/Appendices

Please see Access Road map.

A07-08 FACILITY ACCESS ROAD MAP



RESIDENTIAL BUILDING UNITS: (WITHIN 2000' ACCESS ROAD BUFFER)	
RESIDENTIAL BUILDING UNITS:	9
HIGH OCCUPANCY BUILDING UNITS:	0
SCHOOLS:	0
CHILD CARE CENTERS:	0

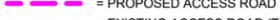
ACCESS ROAD LENGTH:	
PROPOSED ACCESS ROAD LENGTH:	±1156'
EXISTING ACCESS ROAD (TO BE IMPROVED) LENGTH:	±707'
TOTAL ACCESS ROAD LENGTH:	±1863'

DISCLAIMER:
THIS PLOT DOES NOT REPRESENT A MONUMENTED LAND SURVEY AND SHOULD NOT BE RELIED UPON TO DETERMINE BOUNDARY LINES.
PROPERTY OWNERSHIP OR OTHER PROPERTY INTERESTS, PARCEL LINES, IF DEPICTED HAVE NOT BEEN FIELD VERIFIED AND MAY BE BASED
UPON PUBLICLY AVAILABLE DATA THAT ALSO HAS NOT BEEN INDEPENDENTLY VERIFIED.

 8620 Wolff Court Westminster, CO 80031 (303) 928-7128 www.ascentgeomatics.com	FIELD DATE: 06-03-19	DRAWING DATE: 07-28-21	SITE NAME: A07-08 FACILITY
	DRAWN BY: LNJ	CHECKED BY: NJM	SURFACE LOCATION: SE 1/4 NE 1/4 SEC. 7, T6N, R64W, 6TH P.M. WELD COUNTY, COLORADO

DATA SOURCE:
AERIAL IMAGERY: NAIP 2019

PUBLICLY AVAILABLE DATA SOURCES HAVE NOT BEEN INDEPENDENTLY VERIFIED BY ASCENT.

LEGEND:			
	= PROPOSED ACCESS ROAD		= 2000' ACCESS ROAD RADIUS
	= EXISTING ACCESS ROAD (TO BE IMPROVED)		= OIL & GAS LOCATION
	= EXISTING PUBLIC ROAD		= WORKING PAD SURFACE
	= SECTION LINE		= RESIDENTIAL BUILDING UNIT

PREPARED FOR:

