



GARNET 21-K PAD DUST MITIGATION PLAN

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Article I. Introduction

Location Information

This document provides site-specific information for the Garnet 21-K Pad Form 2A as the Garnet 21-K Pad OGDP. The information in this document relates specifically to the time during the construction, drilling, and completion, and production of the twenty-four (24) proposed horizontal wells on this location.

The proposed location is rangeland located North of WCR 78 between WCR 29 and WCR 31 using an existing access onto WCR 78. The Pad will be in NWSE Section 21, Township 7 North, Range 66 West zoned AG within Weld County's Near-Urban Planning Area. A 1041 WOGLA was filed as 1041WOGLA20-0093 on 2/18/2021 and approved at hearing on 4/23/2021.

The proposed Pad will be approximately 13 acres, reduced to 6 acres after interim reclamation. The working pad surface will be 9.2 acres. The Pad is on Parcel 070721000040 owned by the City of Thornton. The location is currently used for farming.

The proposed production facility equipment for the Garnet 21-K Pad will be located within the Working Pad Surface adjacent to the wells and will consist of oil tanks, water tanks, multi-use tanks, separators, meters, Instrument Air System, enclosed combustion devices (ECD), gas compressors, Gas Lift, LACT Units, Scrubbers, Sumps, Water Transfer Skid, and proposed electrical and/or solar equipment.

Phase	Duration (days)	Estimated Start Date
Construction	30	1 st Quarter (March) 2022
Drilling	150	2 nd Quarter (April) 2022
Completion	180	3 rd Quarter (September) 2022
Flowback	60	1 st Quarter (February) 2023
Production	25 Years	3 rd Quarter (August) 2023
Interim Reclamation	10	4 th Quarter (April) 2048*

**or the first favorable growing season.*

Article II. Dust Mitigation Plan Specific Data

Soils

Well Pad Soil type(s): 4 - Aquolls and Aquepts, flooded; 32 - Kim loam, 1 to 3 percent slopes; 51 - Otero sandy loam, 1 to 3 percent slopes

Access Road Soil type(s)**: 51 - Otero sandy loam, 1 to 3 percent slopes_85 - Water does not exist at location or access per ACOE wetland delineation.

****NRCS Web Soil Survey is not accurate at scale to capture access road soil types.**

Total area of soil disturbance in acres including accesses: approximately 15.3 acres. There are no flowline, pipeline, or utility corridors planned as part of the OGDP.

(13.0 pad disturbance + 2.3 acres improved existing access road)

The Haul Route is directly onto unpaved WCR 78 as depicted on the Access Road Map.



Truck Traffic

The duration of drilling and completion activity at this site is estimated to be between 12-18 months and will range from passenger cars and pickups to semi-truck/trailers and tandem truck vehicles. All 24 wells will be drilled at one time.

During the move in and move out of the actual drilling rig equipment, the expected number of per day roundtrips is estimated to be approximately 30 passenger cars/pickups and 40 semitruck/trailers. For the other days during the drilling phase of the operation, the roundtrip numbers should be reduced to 15 trips/day for passenger cars/pickups and 20 semi-truck/trailer or tandem trucks.

During the move in and move out of the actual hydraulic fracturing completion equipment, the expected number of per day roundtrips is estimated to be approximately 40 passenger cars/pickups and 120 semi-truck/trailers. For the other days during the completion phase of the operation, the roundtrip numbers are estimated to be 25 passenger cars/pickups and 100 semitruck/trailers.

There are anticipated to be 1440 annual truck trips during the life of production for this location, which is estimated to last for 25 years.

Estimated Pad Traffic	24 1.5 mile Wells		
	Daily Heavy	Daily Light	Days
Pad Construction	20	5	5
MIRU & RDMO Rig	40	30	6
Drilling Operations	15	20	144
Completion Operations	100	25	96
Drill Outs & Flowback	80	20	48
Battery Construction	5	15	60
Pad Trip Totals	16,240	7,345	359
Per Well Totals	677	306	15
Average per day	45	20	



Article III. Mitigation Measures and Best Management Practices

Operator 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, restriction of construction activity during high-wind days, and silica dust controls when handling sand used in hydraulic fracturing operations. Bayswater additionally has implemented the use of traffic signs when leaving the location to remind drivers of specific routes to utilize.

Operator will stabilize the topsoil stockpiles utilizing vehicle tracking perpendicular to slope angle for short term stabilization and drill seed/crimped straw mulch application for longer term stabilization measures to suppress fugitive dust caused solely by wind.

Operator will minimize the amount of fugitive dust through the use of speed restrictions. All vehicles will be subject to a speed limit of 15 MPH on all lease roads to minimize dust.

Operator will mitigate the creation of fugitive dust through regular road maintenance as coordinated through agreements with Relevant Local Governments or Agencies with road jurisdiction. The access road will be covered with a minimum of 2" of road base material for stabilization and to mitigate dust. Per the approved 1041WOGLA, water or magnesium chloride will be used to mitigate dust impacts during initial construction of the drill site and may be restricted or limited during high-wind days. Silica dust from handling sand used in hydraulic fracturing operations will be mitigated by utilization of the enclosed Sand Box type sand delivery method.

Operator will minimize fugitive dust caused by their operations, or dust originating from areas disturbed by their Oil and Gas Operations that becomes windborne.

Operators will not use any of the following fluids for dust suppression:

- Produced water.
- E&P Waste or hazardous waste
- Crude oil or any oil not specifically designed for road maintenance.
- Solvents
- Any process Fluids

Operator will use only fresh water (potable or non-potable) to conduct dust suppression activities within 300 feet of the ordinary high-water mark of any water body.

Access road will be watered or treated with a commercial dust suppressant if necessary.

Silica dust from handling sand used in hydraulic fracturing operations will be mitigated by utilization of the enclosed Sand Box type sand delivery method.

Operator will maintain safety data sheets ("SDS") for any chemical-based dust suppressant and make the SDS available immediately upon request to the 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.



Article IV. Cumulative Dust Impacts

The estimated number of anticipated truck trips for the Oil and Gas Facility seeking Commission approval combined with the number of anticipated truck trips at any other Oil and Gas Locations within a 1-mile radius during the same time period is below, calculated with all locations with anticipated construction, drilling, and completion dates between Q2 2022 and Q4 2023.

There are no sites not built with approved permits anticipated to have construction dates within the proposed time frame.

Active Oil & Gas Locations within 1 mile:

Thornton 28-H Pad (Loc ID 447778):

12 existing wells (11 PR, 1 SI, 12 AL status), 12 Oil Tanks, 4 Water Tanks, 0 Condensate Tanks/Pits

Thornton 21K-HZ Pad (Loc ID 431912):

1 existing well (1 SI, 5 AL status), 18 Oil Tanks, 6 Water Tanks, 0 Condensate Tanks/Pits

Thornton 21R-HZ Pad (Loc ID 432481):

1 existing well (1 SI, 5 AL status), 18 Oil Tanks, 6 Water Tanks, 0 Condensate Tanks/Pits

There is one active site consisting of 12 wells and two active sites with one SI status well each that are anticipated to remain operational during the proposed time frame. No new completion or drilling operations is anticipated between Q4 2021 and Q4 2023.

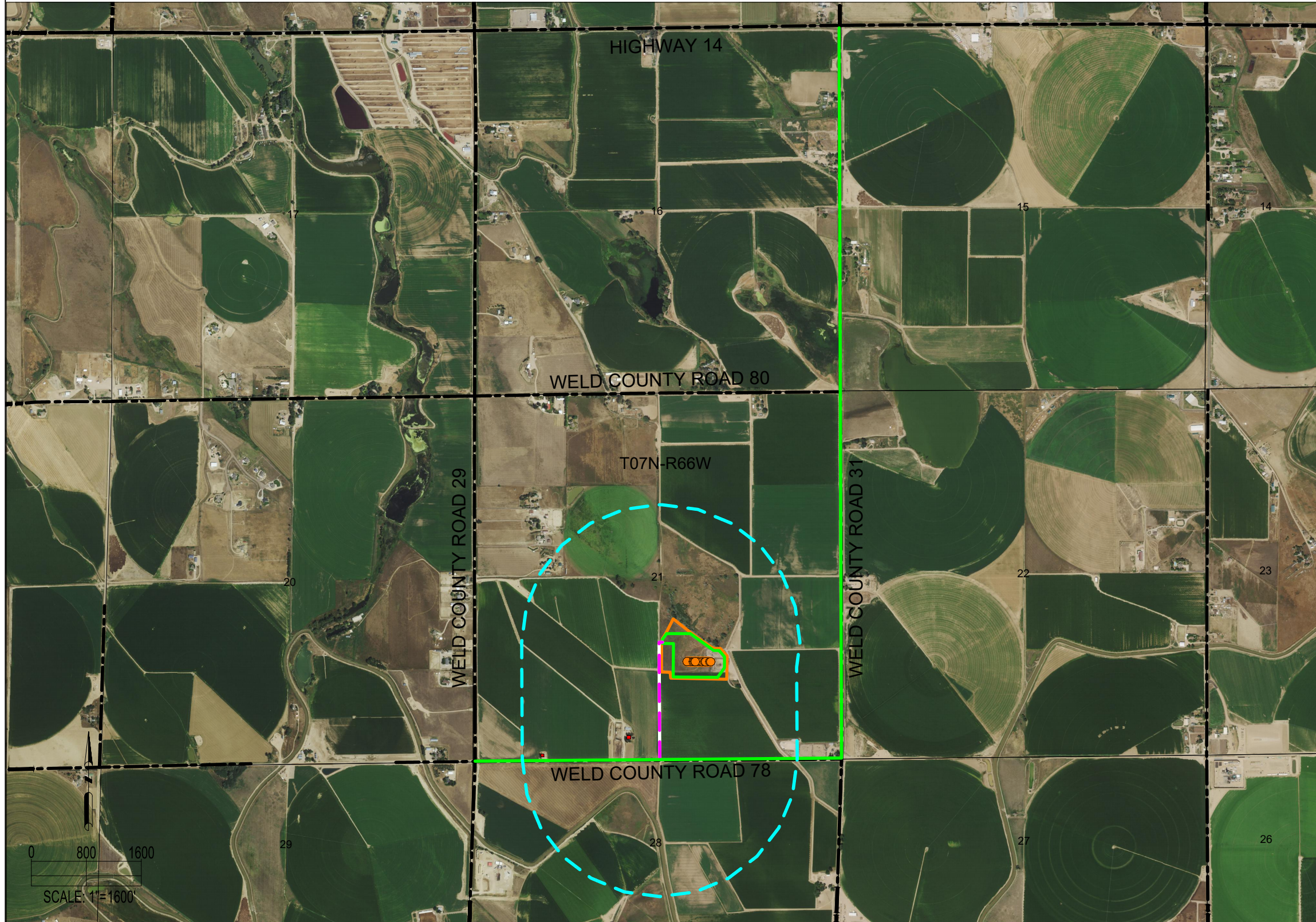
No other Oil and Gas Facility already in existence or seeking Commission approval is anticipated to use the same access road into the proposed Garnet 21-K Pad location.

There are no other major sources of dust in the area which will result in the area bearing a cumulative dust risk that could harm public health, safety, welfare, the environment, or wildlife resources, including impacts to plants, such as burial or significant damage to photosynthetic processes.

Article V. Exhibits/References/Appendices

Please see Access Road Map for haul route

GARNET 21-K PAD ACCESS ROAD MAP



RESIDENTIAL BUILDING UNITS: (WITHIN 2000' ACCESS ROAD BUFFER)	
RESIDENTIAL BUILDING UNITS:	2
HIGH OCCUPANCY BUILDING UNITS:	0
SCHOOLS:	0
CHILD CARE CENTERS:	0

ACCESS ROAD LENGTH:	
EXISTING ACCESS ROAD (TO BE IMPROVED) LENGTH:	±1,749'

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.



FIELD DATE: 04-28-20
DRAWING DATE: 05-17-21
DRAWN BY: CSG
CHECKED BY: NJM

SITE NAME: GARNET 21-K PAD
SURFACE LOCATION: NW 1/4 SE 1/4 SEC. 21, T7N, R66W, 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 WELL
- = EXISTING ACCESS (TO BE IMPROVED)
- = HAUL ROUTE
- - - = EXISTING PUBLIC ROAD
- = SECTION LINE
- = TOWNSHIP LINE
- = RESIDENTIAL BUILDING UNIT
- = 2000' ACCESS ROAD RADIUS
- = OIL & GAS LOCATION
- = WORKING PAD SURFACE

PREPARED FOR:
 BAYSWATER EXPLORATION & PRODUCTION, LLC