

WATER PLAN



Date: November 16, 2021

Location: WR OGDP 2 / Wells Ranch CDP / A12-07 Facility

Legal Description: SWNE Section 12, Township 6 North, Range 64 West, 6th P.M., Weld County Colorado

Table of Contents

Article I. Introduction 2

 Location Information 2

Article II. Water Sources 2

 Source Details 2

 Water Recycling or Re-Use 3

Article III. Exhibits/References/Appendices **Error! Bookmark not defined.**

Article I. Introduction

Location Information

This document provides site-specific information for the A12-07 Facility within the WR OGD 2 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 seventeen (17) proposed horizontal wells producing to this location.

The proposed location is irrigated range northwest of the intersection of WCR 61 and WCR 70. The Pad will be in the SWNE of Section 12, 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 A12-07 Facility oil and gas location disturbance will be 7.4 acres which will not be reduced after interim reclamation. The proposed working pad surface will be 2.9 acres. The A12-07 Facility is on Parcel 80112100001 owned by Case P Gabel. The location is currently used for rangeland.

The proposed A12-07 Facility will accept production from wells on the A12-02 Pad and the A12-10 Pad. The proposed A12-07 Facility equipment will include separators, vapor recovery units (VRUs), gas compressor(s), VOC combustors, a maintenance tank, surge vessels, pump skids, and proposed electrical and/or solar equipment.

Phase	Duration (days)	Estimated Start Date
Construction	60 days	2 nd Quarter (April) 2024
Drilling	N/A	No drilling at Facility; no wells on location
Completion	N/A	No completions at Facility; no wells on location
Flowback	N/A	Flowing back directly to permanent facility
Production	30	4 th Quarter (October) 2025
Interim Reclamation	N/A	1 st Quarter (January) 2026

Article II. Water Sources

Source Details

During facility construction a small water volume supplied independently of the drilling and completion water sources may be trucked to location. Various water sources may be used for construction and will be selected to limit trucking distance and minimize adverse impacts related to facility construction activities. Table 2 -1 presents potential drilling and construction water sources and locations for the A12-07 Facility.

Table 2-1 Construction and Drilling Sources:

Source Name	Source Type	Latitude	Longitude	Est. Volume BBLs	Transport Method
Triton Water Resources, LLC	Groundwater	40.2990°N	104.7524°W	6,000	Trucked

Below are the name and address of water sources planned for Priority 1 area construction and drilling activities.

Triton Water Resources, LLC
Mark Goldstein
145 West Swallow Road, Building B
Fort Collins, Colorado 80525-2500

Water Recycling or Re-Use

Management of the recycle and reuse of produced water will receive a high level of up-front comprehensive planning. The judicious use of freshwater sourcing can be contemplated years in advance of developing the entire CDP. Similarly, the responsible disposal and recycling of wastewater from oil and gas operations can be planned with flexibility to adopt efficiencies and technologies as they become available during CDP development.

EcoNodes facilities, constructed in advance of and operational ahead of associated well production, will include separation of produced water generated from the connected OGDPs. A portion of this produced water may be recycled or reused on location for a portion of the water supply for nearby completion projects. Alternately, produced water may be collected from several EcoNodes and conveyed to a more central location for treatment then returned to the completion location. Development of produced water recycling plan is ongoing and upon finalization will be submitted to the COGCC for review and approval. Estimated produced water to be used for recycling at various pads is presented in Table 2-2.

Table 2-2 A12-07 Facility - Produce Water Volumes for Recycle:

<u>Pad Name</u>	<u>Volume MMBBLs</u>
A12-10 Pad	0.2
A12-02 Pad	0.2
AB35-11 Pad	0.3
A02-07 Pad	0.3
AB32-01 Pad	<u>0.3</u>
Total	1.4

The A12-07 Facility will be a source of produced water for recycle for several nearby pads. In accordance with Noble's dedication to mitigating impacts to the environment, Noble will implement its best practices regarding the proper handling and disposal of E&P waste, including produced water.

In addition to any substances that are not permitted to be used in accordance with state or federal regulations in place at the time of drilling operations, the chemicals listed in Table 437-1 will not be utilized in the hydraulic fracturing fluid at the proposed oil and gas locations. Additionally, monitoring of recycled water will be performed to verify that chemical constituent listed in Table 437-1 for which Table 915-1 also provides a standard will be below the Table 915-1 standard, or the unconcentrated naturally occurring background level, whichever is greater.

Table 2- Background Concentrations (per Table 437-1):

Ingredient Name	CAS #	Table 915-1 Concentration
Benzene	71-43-2	5 µg/l
Lead	7439-92-1	
Mercury	7439-97-6	
Arsenic	740-38-2	
Cadmium	7440-43-9	
Chromium	7440-47-3	
Ethylbenzene	100-41-4	700 µg/l
Xylene	1330-20-7	1,400 µg/l
1,3,5-trimethylbenzene	108-67-8	67 µg/l
1,4-dioxane	123-91-1	
1-butanol	71-36-3	
2-butoxyethanol	111-76-2	
N,N-dimethylformamide	68-12-2	
2-ethylhexanol	104-76-7	
2-mercaptoethanol	60-24-2	
benzene, 1,1'-oxybis-,tetrapropylene derivatives, sulfonated, sodium salts (BOTS)	119345-04-9	
butyl glycidyl ether	8-6-2426	
Quaternary ammonium compounds, dicoco alkyl dimethyl, chlorides (QAC)	61789-77-3	
Bis hexamethylene triamine penta methylene phosphonic acid (BMPA)	35657-77-3	
Diethylenetriamine penta (methylene- phosphonic acid) (DMPA)	15827-60-8	
FD&C blue no. 1	3844-45-9	
Tetrakis (triethanolaminate) zirconium (IV) (TTZ)	101033-44-7	

In accordance with Noble's dedication to mitigating impacts to the environment, Noble will implement its best practices regarding the proper handling and disposal of E&P waste, including produced water. Temporary or permanent pipeline infrastructure will be used to transport produced water and recycled or reuse water.