

**WATER PLAN**

Date: November 16, 2021

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. Water Sources.....	2
Source Details .....	2
Water Recycling or Re-Use .....	3

## **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	60 days	3 <sup>rd</sup> Quarter (July) 2024
Drilling	N/A	No drilling at Tank; no wells on location
Completion	N/A	No completions at Tank; no wells on location
Flowback	N/A	Flowing back directly to permanent facility
Production	25 years	1 <sup>st</sup> Quarter (March) 2025
Interim Reclamation	N/A	3 <sup>rd</sup> Quarter (July) 2024 - unchanged after construction

## **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 A07-08 Facility.

**Table 2-1 Construction Sources:**

<u>Source Name</u>	<u>Source Type</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Est. Volume BBLs</u>	<u>Transport Method</u>
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 WR OGD 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 OGDs. 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 A07-08 Facility - Produce Water Volumes for Recycle:**

<u>Pad Name</u>	<u>Volume MMBBLs</u>
A07-01 Pad	0.5
A12-02 Pad	0.2
A07-04 Pad	0.3
AB35-11 Pad	0.3
A02-07 Pad	0.3
AB28-13 Multi	0.4
AB32-01 Pad	<u>0.4</u>
<b>Total</b>	<b>2.4</b>

The A07-08 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 2-3 Background Concentrations (per Table 437-1):**

<b><u>Ingredient Name</u></b>	<b><u>CAS #</u></b>	<b><u>Table 915-1 Concentration</u></b>
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.