

**FORM  
2A**Rev  
04/18**State of Colorado  
Oil and Gas Conservation Commission**1120 Lincoln Street, Suite 801, Denver, Colorado 80203  
Phone: (303) 894-2100 Fax: (303) 894-2109

Document Number:

401606721

Date Received:

07/02/2018

**Oil and Gas Location Assessment**☒ New Location ☐ Refile ☐ Amend Existing Location Location#: \_\_\_\_\_

This Oil and Gas Location Assessment is to be submitted to the COGCC for approval prior to any ground disturbance activity associated with oil and gas operations. Approval of this Oil and Gas Location Assessment will allow for the construction of the below specified Location; however, it does not supersede any land use rules applied by the local land use authority. Please see the COGCC website at <http://cogcc.state.co.us/> for all accompanying information pertinent this Oil and Gas Location Assessment.

Location ID:

**460416**

Expiration Date:

**12/27/2021**☐ This location assessment is included as part of a permit application.**CONSULTATION**

- ☐ This location is included in a Comprehensive Drilling Plan. CDP # \_\_\_\_\_
- ☐ This location is in a sensitive wildlife habitat area.
- ☐ This location is in a wildlife restricted surface occupancy area.
- ☐ This location includes a Rule 306.d.(1)A.ii. variance request.

**Operator**

Operator Number: 10687

Name: ELEVATION MIDSTREAM LLC

Address: 370 17TH ST SUITE 5300

City: DENVER State: CO Zip: 80202

**Contact Information**

Name: Matthew Eyser

Phone: (720) 974-7793

Fax: ( )

email: matthew.eyser@elevation-midstream.com

**FINANCIAL ASSURANCE**

- ☐ Plugging and Abandonment Bond Surety ID (Rule 706): \_\_\_\_\_ ☐ Gas Facility Surety ID (Rule 711): \_\_\_\_\_
- ☒ Waste Management Surety ID (Rule 704): \_\_\_\_\_

**LOCATION IDENTIFICATION**

Name: BADGER CGF

Number: \_\_\_\_\_

County: WELD

QuarterQuarter: NE4 Section: 30 Township: 1N Range: 67W Meridian: 6 Ground Elevation: 5103

Define a single point as a location reference for the facility location. When the location is to be used as a well site then the point shall be a well location.

Footage at surface: 711 feet FNL from North or South section line

1656 feet FEL from East or West section line

Latitude: 40.027416 Longitude: -104.929729

PDOP Reading: 1.3 Date of Measurement: 07/30/2018

Instrument Operator's Name: Michael Fontenot

## RELATED REMOTE LOCATIONS

(Enter as many Related Locations as necessary. Enter the Form 2A document # only if there is no established COGCC Location ID#)

### This proposed Oil and Gas Location is:

Production Facilities Location serves Well(s)

### LOCATION ID #

### FORM 2A DOC #

	401477008
	401525931
319094	
	401524113
	401477000
	401524109

## FACILITIES

Indicate the number of each type of oil and gas facility planned on location

Wells	Oil Tanks*	6	Condensate Tanks*	Water Tanks*	4	Buried Produced Water Vaults*	8
Drilling Pits	Production Pits*		Special Purpose Pits	Multi-Well Pits*		Modular Large Volume Tanks	
Pump Jacks	Separators*	6	Injection Pumps*	Cavity Pumps*	5	Gas Compressors*	
Gas or Diesel Motors*	Electric Motors	4	Electric Generators*	Fuel Tanks*		LACT Unit*	2
Dehydrator Units*	Vapor Recovery Unit*	4	VOC Combustor*	Flare*		Pigging Station*	7

## OTHER FACILITIES\*

### Other Facility Type

### Number

Transformers	7
Heater Treater	5
Produced Oil Coolers	3
Vessels	8

\*Those facilities indicated by an asterisk (\*) shall be used to determine the distance from the Production Facility to the nearest cultural feature on the Cultural Setbacks Tab.

Per Rule 303.b.(3)C, description of all oil, gas, and/or water pipelines:

#### Initial Pipelines:

Oil Gathering Pipeline: size: 12", material: steel, code: B31.4; Water Gathering Pipeline: size: 8", material: FlexSteel, code: B31.4; Fuel Gas Line from CS: size: 4", material: steel, code: B31.3; LP gas from CGF to CS: size: 10", material: steel, code: B31.3

#### Future Pipelines:

Oil Gathering Pipeline: size: 12", material: steel, code: B31.4; Water Gathering Pipeline: size: 8", material: FlexSteel, code: B31.4; Water Gathering Pipeline: size: 8", material: FlexSteel, code: B31.4

## CONSTRUCTION

Date planned to commence construction: 08/01/2019 Size of disturbed area during construction in acres: 61.00  
Estimated date that interim reclamation will begin: 06/16/2020 Size of location after interim reclamation in acres: 53.00  
Estimated post-construction ground elevation: 5100

## DRILLING PROGRAM

Will a closed loop system be used for drilling fluids: No

Is H<sub>2</sub>S anticipated? No

Will salt sections be encountered during drilling: No

Will salt based mud (>15,000 ppm Cl) be used? No

Will oil based drilling fluids be used? No

## DRILLING WASTE MANAGEMENT PROGRAM

Drilling Fluids Disposal: OFFSITE

Drilling Fluids Disposal Method: Commercial Disposal

Cutting Disposal: OFFSITE

Cuttings Disposal Method: Commercial Disposal

Other Disposal Description:

Beneficial reuse or land application plan submitted? No

Reuse Facility ID: \_\_\_\_\_ or Document Number: \_\_\_\_\_

Centralized E&P Waste Management Facility ID, if applicable: 455012

## SURFACE & MINERALS & RIGHT TO CONSTRUCT

Name: Elevation Midstream, LLC

Phone: 720-557-8300

Address: 370 17th Street, Suite 5300

Fax: \_\_\_\_\_

Address: \_\_\_\_\_

Email: kevin.williams@elevation-midstream.com

City: Denver State: CO Zip: 80202

Surface Owner: ☒ Fee ☐ State ☐ Federal ☐ Indian

Check all that apply. The Surface Owner: ☐ is the mineral owner

☐ is committed to an oil and Gas Lease

☐ has signed the Oil and Gas Lease

☒ is the applicant

The Mineral Owner beneath this Oil and Gas Location is: ☐ Fee ☐ State ☐ Federal ☐ Indian

The Minerals beneath this Oil and Gas Location will be developed from or produced to this Oil and Gas Location: No

The right to construct this Oil and Gas Location is granted by: applicant is owner

Surface damage assurance if no agreement is in place: \_\_\_\_\_ Surface Surety ID: \_\_\_\_\_

Date of Rule 306 surface owner consultation \_\_\_\_\_

## CURRENT AND FUTURE LAND USE

Current Land Use (Check all that apply):

Crop Land: ☐ Irrigated ☒ Dry land ☐ Improved Pasture ☐ Hay Meadow ☐ CRP

Non-Crop Land: ☐ Rangeland ☐ Timber ☐ Recreational ☐ Other (describe): \_\_\_\_\_

Subdivided: ☐ Industrial ☐ Commercial ☐ Residential

Future Land Use (Check all that apply):

Crop Land: ☐ Irrigated ☐ Dry land ☐ Improved Pasture ☐ Hay Meadow ☐ CRP

Non-Crop Land: ☐ Rangeland ☐ Timber ☐ Recreational ☐ Other (describe): \_\_\_\_\_

Subdivided: ☒ Industrial ☐ Commercial ☐ Residential

## CULTURAL DISTANCE INFORMATION

Provide the distance to the nearest cultural feature as measured from Wells or Production Facilities onsite.

	From WELL	From PRODUCTION FACILITY
Building:	Feet 568	Feet
Building Unit:	Feet 568	Feet
High Occupancy Building Unit:	Feet 5280	Feet
Designated Outside Activity Area:	Feet 5280	Feet
Public Road:	Feet 345	Feet
Above Ground Utility:	Feet 396	Feet
Railroad:	Feet 5280	Feet
Property Line:	Feet 327	Feet

### INSTRUCTIONS:

- All measurements shall be provided from center of nearest Well or edge of nearest Production Facility to nearest of each cultural feature as described in Rule 303.b.(3)A.
- Enter 5280 for distance greater than 1 mile.
- Building - nearest building of any type. If nearest Building is a Building Unit, enter same distance for both.
- Building Unit, High Occupancy Building Unit, and Designated Outside Activity Area - as defined in 100-Series Rules.
- For measurement purposes only, Production Facilities should only include those items with an asterisk(\*) on the Facilities Tab.

## DESIGNATED SETBACK LOCATION INFORMATION

Check all that apply. This location is within a:

- ☒ Buffer Zone
- ☐ Exception Zone
- ☐ Urban Mitigation Area

- Buffer Zone - as described in Rule 604.a.(2), within 1,000' of a Building Unit.
- Exception Zone - as described in Rule 604.a.(1), within 500' of a Building Unit.
- Urban Mitigation Area - as defined in 100-Series Rules.
- Large UMA Facility - as defined in 100-Series Rules.

Pre-application Notifications (required if location is within 1,000 feet of a building unit):

Date of Rule 305.a.(1) Urban Mitigation Area Notification to Local Government: \_\_\_\_\_

Date of Rule 305.a.(2) Buffer Zone Notification to Building Unit Owners: 05/21/2018

## FOR MULTI-WELL PADS AND PRODUCTION FACILITIES WITHIN DESIGNATED SETBACK LOCATIONS ONLY:

- ☒ Check this box if this Oil and Gas Location has or will have Production Facilities that serve multiple wells (on or offsite) and the Production Facilities are proposed to be located less than 1,000 feet from a Building Unit. *(Pursuant to Rule 604.c.(2)E.i., the operator must evaluate alternative locations for the Production Facilities that are farther from the Building Unit, and determine whether those alternative locations were technically feasible and economically practicable for the same proposed development.)*
- ☒ By checking this box, I certify that no alternative placements for the Production Facilities, farther from the nearest Building Unit, were available based on the analysis conducted pursuant to Rule 604.c.(2)E.i.

In the space below, explain rationale for siting the multi-well Production Facility(ies) that supports your Rule 604.c.(2)E.i determination. Attach documentation that supports your determination to this Form 2A.

Elevation Midstream's proposed development is within the Buffer Zone Designated Setback Location. Alternative locations were evaluated and according to the geotechnical survey conducted, the subject location was deemed the best option. At the proposed location, wetlands and powerlines are avoided. Due to the size of the project, the site was strategically placed as close to the parcel boundary as possible, while maintaining an appropriate distance to adjacent land owners, in order to preserve the remaining land for future use. Additionally, the proposed layout allows for the higher-pressure processing equipment (bulk separators, heater treaters, etc.) to be furthest from any homes.

## SOIL

List all soil map units that occur within the proposed location. attach the National Resource Conservation Service (NRCS) report showing the "Map Unit Description" report listing the soil typical vertical profile. This data is to be used when segregating topsoil.

The required information can be obtained from the NRCS web site at <http://soildatamart.nrcs.usda.org/> or from the COGCC web site GIS Online map page found at <http://colorado.gov/cogcc>. Instructions are provided within the COGCC web site help section.

NRCS Map Unit Name:

4 - Aquolls and Aquepts, flooded, 82/83 - Wiley-Map unit: Colby complex, 1 to 3/3 to 5 percent slope

NRCS Map Unit Name: 42 - Nunn clay loam, 1 to 3 percent slopes, 82 - Wiley-Colby complex, 1 to 3 percent slopes

NRCS Map Unit Name: 83—Wiley-Colby complex, 3 to 5 percent slopes

**PLANT COMMUNITY:**

Complete this section only if any portion of the disturbed area of the location's current land use is on non-crop land.

Are noxious weeds present: Yes ☒ No ☐

Plant species from: ☐ NRCS or, ☐ field observation Date of observation: \_\_\_\_\_ .

List individual species:

Check all plant communities that exist in the disturbed area.

- ☐ Disturbed Grassland (Cactus, Yucca, Cheatgrass, Rye)
- ☐ Native Grassland (Bluestem, Grama, Wheatgrass, Buffalograss, Fescue, Oatgrass, Brome)
- ☐ Shrub Land (Mahogany, Oak, Sage, Serviceberry, Chokecherry)
- ☐ Plains Riparian (Cottonwood, Willow, Aspen, Maple, Poplar, Russian Olive, Tamarisk)
- ☐ Mountain Riparian (Cottonwood, Willow, Blue Spruce)
- ☐ Forest Land (Spruce, Fir, Ponderosa Pine, Lodgepole Pine, Juniper, Pinyon, Aspen)
- ☐ Wetlands Aquatic (Bullrush, Sedge, Cattail, Arrowhead)
- ☐ Alpine (above timberline)
- ☐ Other (describe): \_\_\_\_\_

## WATER RESOURCES

Is this a sensitive area: ☐ No ☒ Yes

Distance to nearest

downgradient surface water feature: 0 Feet

water well: 1542 Feet

Estimated depth to ground water at Oil and Gas Location 5 Feet

Basis for depth to groundwater and sensitive area determination:

Borings performed during hydrological assessment as well as geotechnical surveys.  
Water well Permit No. 44023-F

Is the location in a riparian area: ☒ No ☐ Yes

Was an Army Corps of Engineers Section 404 permit filed ☒ No ☐ Yes If yes attach permit.

Is the location within a Rule 317B Surface Water Supply Area buffer No zone:

If the location is within a Rule 317B Surface Water Supply Area buffer have all public water supply systems within 15 miles been notified: \_\_\_\_\_

Is the Location within a Floodplain? ☒ No ☐ Yes Floodplain Data Sources Reviewed (check all that apply)

☐ Federal (FEMA)

☒ State

☐ County

☐ Local

☐ Other \_\_\_\_\_

## GROUNDWATER BASELINE SAMPLING AND MONITORING AND WATER WELL SAMPLING

Water well sampling required per Rule N/A

## WILDLIFE

☐ This location is included in a Wildlife Mitigation Plan

☐ This location was subject to a pre-consultation meeting with CPW held on \_\_\_\_\_

## DESIGNATED SETBACK LOCATION EXCEPTIONS

Check all that apply:

☐ Rule 604.a.(1)A. Exception Zone (within 500' of a Building Unit) and is in an Urban Mitigation Area

☐ Rule 604.b.(1)A. Exception Location (existing or approved Oil & Gas Location now within a Designated Setback as a result of Rule 604.a.)

☐ Rule 604.b.(1)B. Exception Location (existing or approved Oil & Gas Location is within a Designated Setback due to Building Unit construction after Location approval)

☐ Rule 604.b.(2) Exception Location (SUA or site-specific development plan executed on or before August 1, 2013)

☐ Rule 604.b.(3) Exception Location (Building Units constructed after August 1, 2013 within setback per an SUA or site-specific development plan)

## RULE 502.b VARIANCE REQUEST

☐ Rule 502.b. Variance Request from COGCC Rule or Spacing Order Number \_\_\_\_\_

ALL exceptions and variances require attached Request Letter(s). Refer to applicable rule for additional required attachments (e.g. waivers, certifications, SUAs).

**OPERATOR COMMENTS AND SUBMITTAL**

Comments Please refer to the "Other" attachment for a complete list of contributing wells/locations that do not yet have an assigned location number with the COGCC.

This facility is being submitted in conjunction with OGLA Doc #401606738 and Form 28, ID #455012.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete.

Signed: \_\_\_\_\_ Date: 07/02/2018 Email: blamond@extractionog.com

Print Name: Bonnie Lamond Title: Regulatory Analyst

Based on the information provided herein, this Application for Permit-to-Drill complies with COGCC Rules and applicable orders and is hereby approved.

COGCC Approved:  Director of COGCC Date: 12/28/2018

### **Conditions Of Approval**

**All representations, stipulations and conditions of approval stated in this Form 2A for this location shall constitute representations, stipulations and conditions of approval for any and all subsequent operations on the location unless this Form 2A is modified by Sundry Notice, Form 4 or an Amended Form 2A.**

#### **COA Type**

#### **Description**

	Operator shall submit a Form 4 Sundry with a list of oil and gas production equipment and corresponding facility layout drawing no later than 60 days from the completion of construction of the location.
	The Approved Form 2A permit will be posted at the location during construction, drilling, and completions operations.

### **Best Management Practices**

#### **No BMP/COA Type**

#### **Description**

1	Community Outreach and Notification	For any planned activities on the site, a letter and/or email will be sent to all adjacent neighbors letting them know about the activity, schedule, and contact for any questions.
2	Traffic control	604.c.(2)S. Access Roads: The access road will be constructed to accommodate local emergency vehicles. This road will be maintained for access at all times. There will be traffic during the construction phase of the project and we will keep all trucks on CR13 and CR6, both of which are paved roads.
3	Traffic control	604.c.(2)D. If required by the local government, a traffic plan will be coordinated with Weld County prior to commencement of operations. Any subsequent modifications to the traffic plan will also be coordinated with Weld County.
4	General Housekeeping	803. Elevation will keep lights focused downward and will use a warm, yellow color bulb versus a cool, bluer color bulb. Lighting during the construction phase of the project will be minimal as we will not be working during night hours.
5	General Housekeeping	A preliminary site specific safety and evacuation plan will be prepared prior to facility operation and is contained in the Fire Protection Plan. This plan shall include directions to the site, emergency contact information, and designated muster points. An Emergency Shutdown Plan showing the location of all emergency isolation valves, ESD switches and fire extinguishers will be prepared prior to facility operation and will be kept on site thereafter. This plan will be incorporated into start-up and commissioning training for the facility.
6	General Housekeeping	604.c(2)M. Location will be adequately fenced to restrict access by unauthorized persons
7	General Housekeeping	604.c.(2)P. All surface trash, debris, scrap or discarded material connected with the operations of the property shall be removed from the premises or disposed of in a legal manner

8	Material Handling and Spill Prevention	<p>Elevation requires an Emergency Preparedness and Emergency Response Plans (ERP) be in place. These plans are kept current and are supported by training and resources to ensure decisive and effective incident response.</p> <p>A current copy of the Emergency Notification Chart for the CGF will be kept on-site with the Notification and Activation section of the Emergency Response Plan</p>
9	Material Handling and Spill Prevention	604.c.(2)F. Leak Detention Plan: Operator will monitor production facilities weekly at a minimum to a maximum of daily to identify fluid leaks, including, but not limited to, visually inspecting all wellheads, tanks and fittings. Additionally annual SPCC inspections will be conducted and documented. Annual flowline testing will also occur according to COGCC Rules 1101 and 1102. Inspection and record retention of flowline testing will be in accordance per COGCC regulation. All records will be made available to the COGCC upon request.
10	Material Handling and Spill Prevention	<p>604.c.(2).G. Tank berms will be constructed of steel rings with a synthetic or engineered liner and designed to contain 150% of the capacity of the largest tank. All berms will be visually checked weekly at a minimum to a maximum of daily to ensure proper working condition. Secondary containment devices shall be sufficiently impervious to contain any spilled or released material. There will be a leak detection system that allows monitoring of the interstitial area between the tank bottom and a flexible membrane liner that's built into the tank foundation.</p> <p>No potential ignition sources shall be installed inside the secondary containment area unless the containment area encloses a fired vessel.</p> <p>The tanks will each be equipped with radar based level indicating transmitters, which monitor the level of the tanks.</p> <p>There will be a leak detection system that allows monitoring of the interstitial area between the tank bottom and a flexible membrane liner that's built into the tank foundation.</p>
11	Material Handling and Spill Prevention	604.c.(2).O. Loadlines will be bull plugged or capped.
12	Material Handling and Spill Prevention	604.c.(2)R Tanks will be designed, constructed and maintained in accordance with NFPA Code 30 (2008 version). All tanks are visually inspected by the operator weekly at a minimum to a maximum of daily and annual SPCC inspections will be conducted and documented. Inspection and record retention of tank inspections will be in accordance per SPCC regulation. All records will be made available to the COGCC upon request.
13	Dust control	805. Elevation plans to mitigating dust by spraying a fine mist of water that will prevent dust from becoming airborne and blowing toward our adjacent neighbors. The landscaping on the property will also assist in preventing soil erosion.
14	Construction	604.c.(2)N. Control of fire hazards. Any material not in use that might constitute a fire hazard shall be removed a minimum of twenty-five (25) feet from tanks and separators. Any electrical equipment installations inside the bermed area shall comply with API RP 500 classifications and comply with the current national electrical code as adopted by the State of Colorado.
15	Noise mitigation	604.c.(2)A. Soil berms and trees strategically planted using data gleaned from a sound study will be main methods of sound mitigation. Most equipment that could emit noise, including compressors and their electric motors, will be enclosed in a sound buffering structure.

Total: 15 comment(s)



## Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
2316487	HYDROLOGY MAP
2316489	RULE 306.E. CERTIFICATION
2316490	LOCATION DRAWING
401606721	FORM 2A SUBMITTED
401629449	OTHER
401629636	NRCS MAP UNIT DESC
401629639	FACILITY LAYOUT DRAWING
401688216	OTHER
401736607	LOCATION PICTURES
401736622	PRE-APPLICATION NOTIFICATION CERTIFICATION
401736650	WASTE MANAGEMENT PLAN
401736678	ACCESS ROAD MAP

Total Attach: 12 Files

## General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
OGLA	Based on the information provided by the Operator, COGCC has determined that this proposed Oil and Gas Location meets the requirements for conditional approval based on compliance with COGCC Rules, including, but not limited to; Rule 604 Series Setback and Mitigation Measures. The Operator has presented a siting rationale for the Production Facilities in the Buffer Zone and Best Management Practices addressing site specific environmental, health, safety and welfare concerns.  OGLA supervisor and technical review complete and OGLA task passed.	12/19/2018
Permit	Final Review Completed.	12/18/2018
OGLA	Operator provided updated equipment list - updated 2A. Vessels include knockouts, IA compressor skids, and gas scrubber. List of equipment with water treatment facility is long and part of the Form 28. Replaced hydrology map and location drawing, attached 306.e. certification. Send to OGLA supervisor for final review. Spoke with Operator on the phone regarding Bald Eagle nest to the northeast of the location (not mapped on CPW maps) but identified by the Operator. Operator has consulted with U.S. Fish and Wildlife and will put sound walls to the north and east for protection of the eagles nest. No other construction beyond sound walls shall occur prior to approval of the 2A.	12/14/2018
OGLA	Operator provided 306.e. and equipment list which does not match the facility layout drawing. Speak with Operator via phone and will get an updated equipment list. Update location information lat/long, section line distances, elevation, and PDOP from location drawing.	12/13/2018
OGLA	Operator responded with updated hydrology list, distance to surface water is 0 feet and updated hydrology map, update BMPs. Request 306.e.	12/04/2018
OGLA	OGLA review: distances to section lines are not correct, need clarification on facilities to facility layout drawing, disturbed area size is not correct, distance to surface water is not correct, hydrology map does not meet 2A requirements.	09/26/2018

LGD	<p>This proposed oil and gas facility is located in the Agricultural Zone District of unincorporated Weld County. A Weld Oil and Gas Location Assessment (WOGLA) is required prior to constructing any improvements related to oil and gas exploration and production.</p> <p>At the time of this comment, the operator has not noticed the Weld County LGD of their intent to apply for a WOGLA.</p> <p>A building permit is required for the production facilities (tank battery, separators, pump jacks, compressors, generators, etc.) from the Department of Planning Services. Access points from County roads require an Access Permit from the Department of Public Works, which includes any necessary traffic control plans and Improvement Agreements. The use of County right-of-way requires a permit from the Department of Public Works.</p> <p>Jason Maxey, Weld Oil/Gas Specialist and LGD 970-400-3579</p>	09/19/2018
Permit	Passed Completeness	09/17/2018
OGLA	Passed Buffer Zone completeness review	09/14/2018
OGLA	<p>This Form 2A did not pass Buffer Zone completeness review. The following issues were identified:</p> <p>Missing the following Rule 604.c.(2) Best Management Practices; 604.c.(2)F, 604.c.(2)G, 604.c.(2)M, 604.c.(2)O, and 604.c.(2)R.,</p> <p>Missing Location Photos attachment,</p> <p>Missing Rule 305.a.(2) Pre-application Notification Certification attachment,</p> <p>The 306.e attachment should be provided no sooner than after the Form 2A public comment period,</p> <p>The Location Drawing does not identify the visible improvements within 500' with distance and bearing to those improvements,</p> <p>The access road map does not show access road(s) or access points form County roads.</p> <p>The Waste Management Plan does not address management of Exploration and Production Waste.</p> <p>The operator was notified by email and form was pushed to Draft</p>	07/18/2018
Permit	Referred to OGLA supervisor for buffer zone review.	07/03/2018

Total: 11 comment(s)