



## LEASE INFORMATION

Using standard QtrQtr, Sec, Twp, Rng format, describe one entire mineral lease that will be produced by this well (Describe lease beneath surface location if produced. Attach separate description page or map if necessary.)

N/A

Total Acres in Described Lease: \_\_\_\_\_ Described Mineral Lease is: ☐ Fee ☐ State ☐ Federal ☐ Indian

Federal or State Lease # \_\_\_\_\_ N/A

Distance from Completed Portion of Wellbore to Nearest Lease Line of described lease: \_\_\_\_\_ Feet

## CULTURAL DISTANCE INFORMATION

Distance to nearest:

Building: 434 Feet  
Building Unit: 1208 Feet  
High Occupancy Building Unit: 5280 Feet  
Designated Outside Activity Area: 5280 Feet  
Public Road: 205 Feet  
Above Ground Utility: 270 Feet  
Railroad: 5280 Feet  
Property Line: 155 Feet

### INSTRUCTIONS:

- All measurements shall be provided from center of the Proposed Well to nearest of each cultural feature as described in Rule 303.a.(5).
- 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.

## 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.

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: \_\_\_\_\_

## SPACING and UNIT INFORMATION

Distance from Completed Portion of Wellbore to Nearest Wellbore Permitted or Completed in the same formation: 5280 Feet

Distance from Completed Portion of Wellbore to Nearest Unit Boundary \_\_\_\_\_ Feet (Enter 5280 for distance greater than 1 mile.)

Federal or State Unit Name (if appl): n/a Unit Number: n/a

## SPACING & FORMATIONS COMMENTS

This is a commercial class II well.

## OBJECTIVE FORMATIONS

Objective Formation(s)	Formation Code	Spacing Order Number(s)	Unit Acreage Assigned to Well	Unit Configuration (N/2, SE/4, etc.)
LYONS	LYNS			

## DRILLING PROGRAM

Proposed Total Measured Depth: 9250 Feet

Distance to nearest permitted or existing wellbore penetrating objective formation: 4488 Feet (Including plugged wells)

Will a closed-loop drilling system be used? No

Is H<sub>2</sub>S gas reasonably expected to be encountered during drilling operations at concentrations greater than or equal to 100 ppm? No (If Yes, attach an H<sub>2</sub>S Drilling Operations Plan)

Will salt sections be encountered during drilling? No

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

Will oil based drilling fluids be used? No

BOP Equipment Type: ☒ Annular Preventor ☒ Double Ram ☐ Rotating Head ☐ None

## GROUNDWATER BASELINE SAMPLING AND MONITORING AND WATER WELL SAMPLING

Water well sampling required per Rule 318A

## DRILLING WASTE MANAGEMENT PROGRAM

Drilling Fluids Disposal: OFFSITE Drilling Fluids Disposal Methods: Commercial Disposal

Cuttings Disposal: OFFSITE Cuttings Disposal Method: Commercial Disposal

Other Disposal Description:

Beneficial reuse or land application plan submitted? No

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

## CASING PROGRAM

Casing Type	Size of Hole	Size of Casing	Wt/Ft	Csg/Liner Top	Setting Depth	Sacks Cmt	Cmt Btm	Cmt Top
CONDUCTOR	20	16	0	0	70	71	70	0
SURF	12+1/4	9+5/8	36	0	655	143	655	0
1ST	8+3/4	7	23	0	9250	1022	9250	0

☐ Conductor Casing is NOT planned

## DESIGNATED SETBACK LOCATION EXCEPTIONS

Check all that apply:

- ☐ Rule 604.a.(1)A. Exception Zone (within 500' of Building Unit)
- ☐ 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)

## GREATER WATTENBERG AREA LOCATION EXCEPTIONS

Check all that apply:

- ☐ Rule 318A.a. Exception Location (GWA Windows).
- ☐ Rule 318A.c. Exception Location (GWA Twinning).

## RULE 502.b VARIANCE REQUEST

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

## OTHER LOCATION EXCEPTIONS

Check all that apply:

- ☐ Rule 318.c. Exception Location from Rule or Spacing Order Number \_\_\_\_\_
- ☐ Rule 603.a.(2) Exception Location (Property Line Setback).

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 The name of the well referenced on the Attachments has changed to the Greeley SWD #1.  
An exception location request is not necessary for this well, as the Lyons formation is not a cretaceous formation.

This application is in a Comprehensive Drilling Plan \_\_\_\_\_ CDP #: \_\_\_\_\_

Location ID: \_\_\_\_\_

Is this application being submitted with an Oil and Gas Location Assessment application? \_\_\_\_\_ Yes

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

Signed: \_\_\_\_\_ Print Name: JOE EVERS

Title: ATTORNEY Date: 2/3/2015 Email: JEVERS@BURLESONLLP.CO

Operator must have a valid water right or permit allowing for industrial use or purchased water from a seller that has a valid water right or permit allowing for industrial use, otherwise an application for a change in type of use is required under Colorado law. Operator must also use the water in the location set forth in the water right decree or well permit, otherwise an application for a change in place of use is required under Colorado law. Section 37-92-103(5), C.R.S. (2011).

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: 8/26/2015  
Expiration Date: 08/25/2017

**API NUMBER**

05 123 42099 00

### Conditions Of Approval

All representations, stipulations and conditions of approval stated in the Form 2A for this location shall constitute representations, stipulations and conditions of approval for this Form 2 Permit-to-Drill and are enforceable to the same extent as all other representations, stipulations and conditions of approval stated in this Permit-to-Drill.

#### COA Type

#### Description

	1) Note surface casing setting depth change from 500' to 655'. Increase cement coverage accordingly and cement to surface 2) Submit Form 42 electronically to COGCC 48 hours prior to MIRU. 3) Comply with Rule 317.j and provide cement coverage from end of 7" casing to a minimum of 200' above Niobrara. Verify coverage with cement bond log.
	1. Injection is not authorized until approval of Forms 31 and 33. 2. Operator required to contact COGCC to discuss Step Rate Test or Injectivity Test criteria for Maximum Surface Injection Pressure determination. 3. Prior approval of Form 4 is required for step rate and injectivity tests. 4. Retrieve water sample(s) from injection zone(s) before stimulating formation. Samples must be analyzed for Total Dissolved Solids at a minimum. 5. For all new drill Underground Injection Control wells a suite of open-hole Resistivity/Gamma Ray and Density/Neutron logs is required from Surface Casing shoe to TD. A PDF, TIFF, or PDS visual image and a LAS or DILS file version of each log is required. 6. Operator must provide all tops of formations encountered from surface to TD on the Form 5 when submitted.

## **Best Management Practices**

<b><u>No</u></b>	<b><u>BMP/COA Type</u></b>	<b><u>Description</u></b>
1	Drilling/Completion Operations	Open-hole Resistivity Log with Gamma Ray Log will be run from TD into the surface casing. A Cement Bond Log with Gamma-Ray will be run on production casing, or on intermediate casing if a production liner is run. The Form 5, Completion Report, will list all logs run and have those logs attached

Total: 1 comment(s)

## **Applicable Policies and Notices to Operators**

Notice Concerning Operating Requirements for Wildlife Protection.

## **Attachment Check List**

<b><u>Att Doc Num</u></b>	<b><u>Name</u></b>
2437157	LOCATION DRAWING
400785304	FORM 2 SUBMITTED
400848532	WELL LOCATION PLAT

Total Attach: 3 Files

## General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Engineer	Changed surface casing setting depth from 500' to 655' to achieve required 50' coverage below deepest water well within 1 mile. (Permit #0263062-A; Willow West Properties NWNE 22 6N-66W) at 605'.	8/19/2015 10:10:54 AM
Permit	Final Review Completed. No LGD or public comment received.  COGCC has received the Form 31 and 33 for this UIC well. Form 31 = 2494418 Form 33 = 2494417	8/10/2015 11:32:57 AM
Engineer	Vert. Well no HOP eval req'd.	8/10/2015 10:49:06 AM
Permit	Operator revised distance to wellbore in same formation to 5280'.	7/22/2015 11:16:54 AM
UIC	FYI: Because operator is requesting a maximum daily injection rate greater than 10,000 bbl/d (request is for 15,000 bbl/d) on the UIC Form 31 permit, there will be a COA on the Form 31 for the operator to install and maintain a seismic monitoring station within a 1-mile radius of this well.	6/16/2015 1:20:56 PM
Permit	Assigned UIC Engineer task. Added related form 2A  -Distance from completed portion of wellbore to nearest wellbore permitted or completed in the same formation is listed to a plugged well. Contacted operator to revise.	6/10/2015 3:16:24 PM
Permit	Passed completeness. 1.) Changed the Footages at Top of Prod and Bottom Hole with permission from the Operator. 2.) Changed the Surface Owner and the Mineral Owner to "N/A" from "FEE" with permission from the Operator.	6/4/2015 10:06:44 AM
Permit	Returned to draft. 1.) "PLAT" should be named "Well Location Plat". 2.) Submitted well name should match the names on all attachments. 3.) Footages at the Top of Prod Zone and Bottom Hole should be blank if this is a vertical well, or if this is a directional well than the Deviated Drilling Plan and Directional Data should be attached. 4.) In the Surface & Minerals tab under the "The Minerals beneath this Oil and Gas Location..." should have "No" selected. 5.) In the Spacing & Formations tab "Distance from completed portion..." is blank. 6.) Missing 317.p BMP.	3/2/2015 7:13:25 AM
Permit	Location Drawing attachment not required, missing Well Location Plat attachment. Return to draft.	2/5/2015 1:44:25 PM
Permit	Remove Federal or State Unit Name and Number from Spacing & Formations tab. Missing Well Location Plat attachment. Return to draft.	2/5/2015 10:55:34 AM

Total: 10 comment(s)