

FORM  
2  
Rev  
08/13

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:  
400786017

APPLICATION FOR PERMIT TO:

Drill       Deepen       Re-enter       Recomplete and Operate

Date Received:  
02/04/2015

TYPE OF WELL OIL  GAS  COALBED  OTHER \_\_\_\_\_  
ZONE TYPE SINGLE ZONE  MULTIPLE ZONES  COMMINGLE ZONES

Refiling   
Sidetrack

Well Name: PTASNIK Well Number: 1-30-9-59  
Name of Operator: CARRIZO NIOBRARA LLC COGCC Operator Number: 10439  
Address: 500 DALLAS STREET #2300  
City: HOUSTON State: TX Zip: 77002  
Contact Name: CYNTHIA PINEL Phone: (713)358-6210 Fax: ( )  
Email: CYNTHIA.PINEL@CRZO.NET

RECLAMATION FINANCIAL ASSURANCE

Plugging and Abandonment Bond Surety ID: 20120105

WELL LOCATION INFORMATION

QtrQtr: 4 Sec: 30 Twp: 9N Rng: 59W Meridian: 6  
Latitude: 40.715190 Longitude: -104.028890

Footage at Surface: 446 feet FNL/FSL FSL 401 feet FEL/FWL FWL

Field Name: WILDCAT Field Number: 99999  
Ground Elevation: 4917 County: WELD

GPS Data:  
Date of Measurement: 10/21/2014 PDOP Reading: 3.0 Instrument Operator's Name: MARC WOODARD

If well is  Directional  Horizontal (highly deviated) **submit deviated drilling plan.**

Footage at Top of Prod Zone: FNL/FSL FEL/FWL Bottom Hole: FNL/FSL FEL/FWL  
300 FSL 330 FWL 300 FNL 330 FWL  
Sec: 30 Twp: 9N Rng: 59W Sec: 30 Twp: 9N Rng: 59W

LOCATION SURFACE & MINERALS & RIGHT TO CONSTRUCT

Surface Ownership:  Fee  State  Federal  Indian

The Surface Owner is:  is the mineral owner beneath the location.  
(check all that apply)  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 by this Well: Yes

The right to construct the Oil and Gas Location is granted by: oil and gas lease

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

## 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.)

Township 9N, Range 59W, of the 6th P.M: Lots 1, 2, 3 & 4, & E/2W/2 & W/2E/2 of Section 30.

Total Acres in Described Lease: 480 Described Mineral Lease is:  Fee  State  Federal  Indian

Federal or State Lease # \_\_\_\_\_

Distance from Completed Portion of Wellbore to Nearest Lease Line of described lease: 300 Feet

## CULTURAL DISTANCE INFORMATION

Distance to nearest:

Building: 5280 Feet

Building Unit: 5280 Feet

High Occupancy Building Unit: 5280 Feet

Designated Outside Activity Area: 5280 Feet

Public Road: 5280 Feet

Above Ground Utility: 5280 Feet

Railroad: 5280 Feet

Property Line: 401 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: 150 Feet

Distance from Completed Portion of Wellbore to Nearest Unit Boundary 300 Feet (Enter 5280 for distance greater than 1 mile.)

Federal or State Unit Name (if appl): \_\_\_\_\_ Unit Number: \_\_\_\_\_

## SPACING & FORMATIONS COMMENTS

PRODUCTIVE INTERVAL OF WELLBORE SHALL BE LOCATED NO CLOSER THAN 300 FT. FROM UNIT BOUNDARIES, NO CLOSER THAN 100 FT. FROM PRODUCTIVE INTERVAL OF ANY OTHER WELLBORE. NO CLOSER THAN 50 FT. FROM PRODUCTIVE INTERVAL IN NIOBRARA FORMATION BENCH ABOVE OR BELOW

## OBJECTIVE FORMATIONS

Objective Formation(s)	Formation Code	Spacing Order Number(s)	Unit Acreage Assigned to Well	Unit Configuration (N/2, SE/4, etc.)
NIOBRARA	NBRR	535-585	640	SECTION 30: ALL

## DRILLING PROGRAM

Proposed Total Measured Depth: 10941 Feet

Distance to nearest permitted or existing wellbore penetrating objective formation: 150 Feet (Including plugged wells)

Will a closed-loop drilling system be used? Yes

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)



## 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 \_\_\_\_\_

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: CYNTHIA PINEL \_\_\_\_\_

Title: Regulatory Comp. Analyst Date: 2/4/2015 Email: CYNTHIA.PINEL@CRZO.NET

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: Matthew Lee Director of COGCC Date: 3/9/2015

Expiration Date: 03/08/2017

### API NUMBER

05 123 41244 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

	Note changes to submitted form. 1) Provide 48 hour notice of MIRU via electronic Form 42. 2) Set 1600' of surface casing (Upper Pierre aquifer). 3) Provide cement coverage to a minimum of 200' above Niobrara. Verify coverage with cement bond log. 4) Run and submit Directional Survey from TD to base of surface casing. Ensure that the wellbore complies with setback requirements in commission orders or rules prior to producing the well.
	Open hole resistivity and gamma logs shall be run to describe the stratigraphy of the entire well bore and to adequately verify the setting depth of surface casing and aquifer coverage. On a multi-well pad, these open hole logs are only required on one of the first wells drilled on the pad and the Drilling Completion Report - Form 5 for every well on the pad shall identify which well was logged.

## Best Management Practices

<u>No</u>	<u>BMP/COA Type</u>	<u>Description</u>
1	Storm Water/Erosion Control	Operator has designed the well pad with insloping and a storm water control ditch to prevent storm water run-on/run-off and the release of fluids from the location. See attached Construction Layout Drawing.
2	Material Handling and Spill Prevention	Operator will ensure 110 percent secondary containment for any volume of fluids contained at the well site during drilling and completion. Operator will implement best management practices to contain any unintentional release of fluids.
3	Construction	The location will be fenced.
4	Drilling/Completion Operations	Operator will implement interim reclamation measures immediately after construction of the location to stabilize cut and fill slopes, stabilize the topsoil and spoil stockpiles, establish desirable vegetation and control weeds on the location. Jet pump used at the initial start-up of the well then replaced with pump jack.

Total: 4 comment(s)

### Applicable Policies and Notices to Operators

Notice Concerning Operating Requirements for Wildlife Protection.

### Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
400786017	FORM 2 SUBMITTED
400786427	WELL LOCATION PLAT
400786429	DEVIATED DRILLING PLAN
400786430	DEVIATED DRILLING PLAN
400786431	DIRECTIONAL DATA

Total Attach: 5 Files

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Final Review Completed. No LGD or public comment received.	3/6/2015 8:36:13 AM
Engineer	Operator confirms 4.5" is casing and 7" will be set below the 300' setback. Operator states there are 2 packers above the 7" shoe that isolate produced fluids from going uphole in the 7"x4.5" annulus.	3/2/2015 2:39:39 PM
Engineer	Evaluated existing wells within 1500' of proposed directional.	2/17/2015 11:08:53 AM
Permit	Added lease description provided by the operator.	2/12/2015 9:00:14 AM
Permit	Added wellbore integrity contact email provided by the operator. Added the 2A related document.	2/11/2015 2:46:06 PM
Permit	Requested revised distance to nearest wellbore in the same formation from 668 to 150' on the spacing tab. Operator agreed.	2/11/2015 2:39:43 PM
Permit	Regeusted revised distance to nearest lease line. Based on lease description distance is closer than 300 ft.	2/10/2015 3:04:34 PM
Permit	Removed construction layout drawing provided by the operator and attached it to the related 2A	2/10/2015 3:02:42 PM
Permit	Passed completeness.	2/6/2015 9:41:18 AM
Permit	Casing depth differs by 105'. Return to draft.	2/5/2015 3:45:38 PM

Total: 10 comment(s)

