

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:

400499384

## APPLICATION FOR PERMIT TO:

☐ Drill
 ☐ Deepen
 ☒ Re-enter
 ☐ Recomplete and Operate

Date Received:

10/22/2013

TYPE OF WELL OIL ☐ GAS ☐ COALBED ☐ OTHER Re-enter and PlugRefilling ☐ZONE TYPE SINGLE ZONE ☒ MULTIPLE ZONES ☐ COMMINGLE ZONES ☐Sidetrack ☐

Well Name: Taylor

Well Number: #1A

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: NENW Sec: 26 Twp: 8N Rng: 60W Meridian: 6

Latitude: 40.638295

Longitude: -104.061691

Footage at Surface: 841 feet FNL/FSL FNL 1799 feet FEL/FWL FWL

Field Name: CLAY BASKET

Field Number: 11340

Ground Elevation: 4897

County: WELD

GPS Data:

Date of Measurement: 01/29/1992 PDOP Reading: 0.0 Instrument Operator's Name: N/A

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

Sec: Twp: Rng: Sec: Twp: Rng:

## LOCATION SURFACE &amp; MINERALS &amp; RIGHT TO CONSTRUCT

Surface Ownership: ☒ Fee ☐ State ☐ Federal ☐ IndianThe 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: No

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

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.)

Site release signed by surface owner to be attached.

Total Acres in Described Lease: \_\_\_\_\_ 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: \_\_\_\_\_ Feet

## CULTURAL DISTANCE INFORMATION

Distance to nearest:

Building: 2087 Feet

Building Unit: 2087 Feet

High Occupancy Building Unit: 5280 Feet

Designated Outside Activity Area: 5280 Feet

Public Road: 839 Feet

Above Ground Utility: 1819 Feet

Railroad: 5280 Feet

Property Line: 841 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: 168 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): \_\_\_\_\_ Unit Number: \_\_\_\_\_

## SPACING & FORMATIONS COMMENTS

## OBJECTIVE FORMATIONS

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

## DRILLING PROGRAM

Proposed Total Measured Depth: 7000 Feet

Distance to nearest permitted or existing wellbore penetrating objective formation: 168 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 N/A

## DRILLING WASTE MANAGEMENT PROGRAM

Drilling Fluids Disposal: ONSITE Drilling Fluids Disposal Methods: Recycle/reuse

Cuttings Disposal: OFFSITE Cuttings Disposal Method: Commercial Disposal

Other Disposal Description:

No pits to be used

Beneficial reuse or land application plan submitted?

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
SURF	12+1/4	8+5/8	24	0	441	400	450	0
1ST	7+1/28	4+1/2	11.6	0	7000	160	7000	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

Operator would like to re-entr this well to adequately re-plug. Procedures for plugging are included in the BMP and also attached in PDF format. Proposed Wellbore Diagram attached as well. No pits to be used and the surface disturbance will not be enlarged beyond original disturbance.

**PROCEDURE:**

1. Locate old surface casing using magnetometer. Record the GPS coordinates and the datum used for the GPS coordinates. Set a state and try to locate the boundaries of the old pad site.
2. Dig down to the old surface casing and cut plate off, install a slip collar to fit over the 8 5/8 ".
3. Install flange. If rig is not on location then install a dry hole tree to secure the well until the rig arrives.

**RE-ENTER & CLEANOUT WELLBORE:**

4. MIRU workover rig and related equipment including pipe racks, catwalk, rig tank, mud system, and pump. Bleed off any pressure on the dry hole tree. ND the dry hole tree and NU the rig BOP's.
5. Test the BOP's to 250 psi for a low test and 4,500 psi for a high test. RU the work floor and PU 2 7/8" 8 rd work string with a 6 1/2" rock bit.
6. Drill up top cement plug if encountered and expect the to be 30' to 50' in length. Continue drilling or RIH in the hole to top of the next plug at 347'.
7. Pressure test the surface casing to 1000 psi. After a positive test, begin drilling on the second cement plug, this cement plug's bottom is expected to be at 524'.
8. POOH with BHA and RIH with a notch collar to wash down to the top of the 4 1/2' casing at 6,120'. Continue to 6,220' and circulate for 1 hour to clean up hole.

**SET CEMENT PLUGS AND ABANDON WELL:**

9. RU cementers. Test lines to 4,500 psi.
10. Set plugs coming up hole according to the attached P & A Procedure - Cement Plug Table.
11. Once the top plug has been set cut casing to 5' below surface and weld on a plate to seal the well. Cover up the well and remediate the disturbed area with the appropriate seed mix.
12. RU cementers. Test lines to 4,500 psi.
13. Set plugs coming up hole according to the following Cement Plug Table.
14. Once the top plug has been set cut casing to 5' below surface and weld on a plate to seal the well. Cover up the well and remediate the disturbed area with the appropriate seed mix.

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

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

Is this application being submitted with an Oil and Gas Location Assessment application? \_\_\_\_\_ No

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: 10/22/2013 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: 11/15/2013

Expiration Date: 11/14/2015

**API NUMBER**

05 123 15471 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**

	<ol style="list-style-type: none"><li>1) Provide 24 hour notice of MIRU to Kym Schure at 970-520-3832 or e-mail Kym.Schure@state.co.us</li><li>2) Pump stub plug from 6220' to 5920'.</li><li>3) For 650' plug: pump plug and displace, shut-in, if not circulated to surface WOC 4 hours and tag plug. Place 10 sx at surface.</li><li>4) Operator must provide well location GPS coordinates on Subsequent Report of Abandonment in accordance with COGCC As-Built Location Policy and Rule 215.</li></ol>
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## Best Management Practices

No	BMP/COA Type	Description
1	Planning	Operator will obtain and submit data for as-built well location GPS on the Form 6. The scope of this work is to re-enter the old wellbore that had previously been plugged and abandoned. The well will be properly plugged and abandoned by setting cement plugs to isolate the formation, freshwater zone, and setting a cement cap near the surface. Then the surface casing will have a plate welded as final seal 5' below the surface. The old wellbore will then be buried and the surface location will be remediated.
2	Traffic control	DIRECTIONS TO LOCATION: From Briggsdale head east on Hwy 14 to CR 105. Then head south on CR 115 for 1 mile to the Bailey 26 Pad access road. Access to the Taylor #1-A site can be gained from the Bailey 26 Pad.
3	General Housekeeping	Perform safety meeting prior to rigging up ANY equipment on location. Discuss the job procedure and objectives with all personnel on location. Document the safety meeting on the report sent to Carrizo. Make note of all potential risks/hazards, and clearly identify an emergency route and emergency vehicle. Also make note of any new or inexperienced personnel on location. Ensure proper Personal Protective Equipment (PPE) is used during the job. Minimums are hard hats, steel toes, and safety glasses.
4	Dust control	All personnel should keep their speed down to 30 mph once they are near a residence or in a high traffic area to minimize dust.
5	Construction	<p>PROCEDURE:</p> <ol style="list-style-type: none"> <li>1. Locate old surface casing using magnetometer. Record the GPS coordinates and the datum used for the GPS coordinates. Set a state and try to locate the boundaries of the old pad site.</li> <li>2. Dig down to the old surface casing and cut plate off, install a slip collar to fit over the 8 5/8 ".</li> <li>3. Install flange. If rig is not on location then install a dry hole tree to secure the well until the rig arrives.</li> </ol> <p>RE-ENTER &amp; CLEANOUT WELLBORE:</p> <ol style="list-style-type: none"> <li>4. MIRU workover rig and related equipment including pipe racks, catwalk, rig tank, mud system, and pump. Bleed off any pressure on the dry hole tree. ND the dry hole tree and NU the rig BOP's.</li> <li>5. Test the BOP's to 250 psi for a low test and 4,500 psi for a high test. RU the work floor and PU 2 7/8" 8 rd work string with a 6 1/2" rock bit.</li> <li>6. Drill up top cement plug if encountered and expect the to be 30' to 50' in length. Continue drilling or RIH in the hole to top of the next plug at 347'.</li> <li>7. Pressure test the surface casing to 1000 psi. After a positive test, begin drilling on the second cement plug, this cement plug's bottom is expected to be at 524'.</li> <li>8. POOH with BHA and RIH with a notch collar to wash down to the top of the 4 1/2' casing at 6,120'. Continue to 6,220' and circulate for 1 hour to clean up hole.</li> </ol> <p>SET CEMENT PLUGS AND ABANDON WELL:</p> <ol style="list-style-type: none"> <li>9. RU cementers. Test lines to 4,500 psi.</li> <li>10. Set plugs coming up hole according to the attached P &amp; A Procedure - Cement Plug Table.</li> <li>11. Once the top plug has been set cut casing to 5' below surface and weld on a plate to seal the well. Cover up the well and remediate the disturbed area with the appropriate seed mix.</li> <li>12. RU cementers. Test lines to 4,500 psi.</li> <li>13. Set plugs coming up hole according to the following Cement Plug Table.</li> <li>14. Once the top plug has been set cut casing to 5' below surface and weld on a plate to seal the well. Cover up the well and remediate the disturbed area with the appropriate seed mix.</li> </ol>

Total: 5 comment(s)

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## Attachment Check List

<b>Att Doc Num</b>	<b>Name</b>
400499384	FORM 2 SUBMITTED
400499420	OTHER
400499423	WELLBORE DIAGRAM
400499425	PROPOSED PLUGGING PROCEDURE
400499428	SURFACE OWNER CONSENT
400499443	WELLBORE DIAGRAM

Total Attach: 6 Files

### **General Comments**

<b>User Group</b>	<b>Comment</b>	<b>Comment Date</b>
Permit	Oper. decided not to pursue expedited approval; deleted comments referencing this request. Per oper.'s engineer, completed information required for drilling tab. No LGD or public comments. Final Review--passed.	11/15/2013 7:58:07 AM
Permit	Returned to draft: 1) Need surface owner & mineral owner info completed. 2) Need revised var. req. ltr. that cites Rule 305.d and states exigent circumstances as well as waivers attached. 3) Surface owner & LGD waivers required. 4) Need procedure in comments. 5) Need var. req. checkbox and rule completed on Exceptions Tab.	10/23/2013 3:28:41 PM
Permit	Returned to draft: cultural distances to be filled out. Proposed plugging procedure placed in the comments.	10/22/2013 1:45:06 PM

Total: 3 comment(s)