

FORM

2

Rev  
12/05

## 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:

400357582

Date Received:

12/17/2012

PluggingBond SuretyID

20100108

## APPLICATION FOR PERMIT TO:

1. ☒ Drill, ☐ Deepen, ☐ Re-enter, ☐ Recomplete and Operate

## 2. TYPE OF WELL

OIL ☒ GAS ☐ COALBED ☐ OTHER Unplanned Sidetrack  
 SINGLE ZONE ☒ MULTIPLE ☐ COMMINGLE ☐

Refiling ☐Sidetrack ☒3. Name of Operator: CARRIZO OIL & GAS INC4. COGCC Operator Number: 103385. Address: 500 DALLAS STREET #2300City: HOUSTON State: TX Zip: 770026. Contact Name: Tina Taylor Phone: (713)328-1000 Fax: (713)328-1060Email: tina.taylor@crzo.net7. Well Name: Rothe Well Number: 12-14-8-61

8. Unit Name (if appl): \_\_\_\_\_ Unit Number: \_\_\_\_\_

9. Proposed Total Measured Depth: 10638

## WELL LOCATION INFORMATION

10. QtrQtr: SWSW Sec: 12 Twp: 8N Rng: 61W Meridian: 6Latitude: 40.670086Longitude: -104.161836

Footage at Surface: 245 feet FSL 245 feet FWL

11. Field Name: Wildcat Field Number: 9999912. Ground Elevation: 4981 13. County: WELD

## 14. GPS Data:

Date of Measurement: 06/01/2011 PDOP Reading: 2.2 Instrument Operator's Name: Loren Shanks15. 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  
650 FSL 650 FWL 650 FNL 650 FWL  
 Sec: 12 Twp: 8N Rng: 61W Sec: 12 Twp: 8N Rng: 61W

16. Is location in a high density area? (Rule 603b)? ☐ Yes ☒ No17. Distance to the nearest building, public road, above ground utility or railroad: 245 ft18. Distance to nearest property line: 245 ft 19. Distance to nearest well permitted/completed in the same formation(BHL): 1493 ft

## 20. LEASE, SPACING AND POOLING INFORMATION

Objective Formation(s)	Formation Code	Spacing Order Number(s)	Unit Acreage Assigned to Well	Unit Configuration (N/2, SE/4, etc.)
Niobrara	NBRR	535-3	640	Sect 12 All

21. Mineral Ownership: ☒ Fee ☐ State ☐ Federal ☐ Indian Lease #: \_\_\_\_\_22. Surface Ownership: ☒ Fee ☐ State ☐ Federal ☐ Indian23. Is the Surface Owner also the Mineral Owner? ☐ Yes ☒ No Surface Surety ID#: 2010017023a. If 23 is Yes: Is the Surface Owner(s) signature on the lease? ☐ Yes ☒ No23b. If 23 is No: ☐ Surface Owners Agreement Attached or ☒ \$25,000 Blanket Surface Bond ☐ \$2,000 Surface Bond ☐ \$5,000 Surface Bond

24. Using standard QtrQtr, Sec, Twp, Rng format enter entire mineral lease description upon which this proposed wellsite is located (attach separate sheet/map if you prefer):

Section 12: T8N R61W. W/2SW4, E/2W/2

25. Distance to Nearest Mineral Lease Line: 0 ft

26. Total Acres in Lease: 160

### DRILLING PLANS AND PROCEDURES

27. Is H2S anticipated? ☐ Yes ☒ No If Yes, attach contingency plan.

28. Will salt sections be encountered during drilling? ☐ Yes ☒ No

29. Will salt (>15,000 ppm TDS CL) or oil based muds be used during drilling? ☐ Yes ☒ No

30. If questions 28 or 29 are yes, is this location in a sensitive area (Rule 901.e)? ☐ Yes ☒ No

31. Mud disposal: ☒ Offsite ☐ Onsite

If 28, 29, or 30 are "Yes" a pit permit may be required.

Method: ☐ Land Farming ☐ Land Spreading ☒ Disposal Facility Other: \_\_\_\_\_

Note: The use of an earthen pit for Recompletion fluids requires a pit permit (Rule 905b). If air/gas drilling, notify local fire officials.

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	9+5/8	36	0	1,400	534	1,400	0
1ST	8+3/4	7	23	1400	6,813	653	6,813	1,400
1ST LINER	6+1/8	4+1/2	11.6	5813	10,696			

32. BOP Equipment Type: ☒ Annular Preventer ☒ Double Ram ☒ Rotating Head ☐ None

33. Comments Unplanned sidetrack. Wellbore deviated beyond maximum allowable inclination to run tubing. Open hole sidetracked @ 2839'. Original hole well path was left open. TD Reached @ MD 10638' TVD 6467' Sidetrack Casing set size and depths 4 1/2 at 10,628 Sidetrack due to Bottom wellbore deviated beyond maximum allowable inclination to run tubing. Plug from 2,332'-2,839' with 240 sacks of class g Plug setting depths, heights and cement volumes Proposed sidetrack kickoff point @ MD 2332' TVD 2358' 17.5 ppg density and .94 ft 3 yield cement. BHL for sidetrack is same as original hole. Formation - same as original hole

34. Location ID: 424216

35. Is this application in a Comprehensive Drilling Plan ? ☐ Yes ☐ No

36. Is this application part of submitted Oil and Gas Location Assessment ? ☒ Yes ☐ No

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

Signed: \_\_\_\_\_ Print Name: Tina Taylor

Title: Regulatory Compliance Date: 12/17/2012 Email: tina.taylor@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: 12/20/2012

#### API NUMBER

05 123 33946 01

Permit Number: \_\_\_\_\_ Expiration Date: 12/19/2014

CONDITIONS OF APPROVAL, IF ANY:

**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.**

- 1) Provide cement coverage from base of intermediate casing to a minimum of 200' above Niobrara. Verify coverage with cement bond log.
- 2) 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.

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

Notice Concerning Operating Requirements for Wildlife Protection.

### **Attachment Check List**

Att Doc Num	Name
400357582	FORM 2 SUBMITTED
400357608	WELL LOCATION PLAT
400357611	DEVIATED DRILLING PLAN
400359021	WELLBORE DIAGRAM
400359089	DIRECTIONAL DATA

Total Attach: 5 Files

### **General Comments**

<b><u>User Group</u></b>	<b><u>Comment</u></b>	<b><u>Comment Date</u></b>
Permit	Final Review completed.	12/19/2012 12:39:17 PM
Permit	Horizontal wellbore crosses lease line. Distance to nearest lease line is 0 feet, distance to nearest unit/pooling boundary is 650 feet.	12/19/2012 12:37:16 PM
Permit	Unplanned sidetrack. Public and LGD comment period waived.	12/17/2012 11:53:17 AM

Total: 3 comment(s)

### **BMP**

<b><u>Type</u></b>	<b><u>Comment</u></b>
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.
Storm Water/Erosion Control	Operator has designed the well pad with insloping and a storm water control ditch to prevent storm water run-on/runoff and the release of fluids from the location. See attached Construction Layout Drawing.
Site Specific	Fresh water for the Fresh Water Storage Pit comes from water provider; water sources permitted for consumable industrial use.
Material Handling and Spill Prevention	Operator shall not allow any fluids to flow back to the Fresh Water Storage Pit.
Site Specific	Fresh Water Storage Pit shall contain fresh water only and signage prohibiting the use of the pit for any fluid that does not come from municipal, irrigation or surface water source.
Construction	The location will be fenced and the fenced area will include the Fresh Water Storage Pit.
Pre-Construction	The COGCC to be notified 48 hours prior to construction of the Fresh Water Storage Pit.

Total: 7 comment(s)