

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:

400447687

Date Received:

07/15/2013

PluggingBond SuretyID

20120105

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 NIOBRARA LLC4. COGCC Operator Number: 104395. 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: Shull Well Number: 4-25-9-60

8. Unit Name (if appl): _____ Unit Number: _____

9. Proposed Total Measured Depth: 10841

WELL LOCATION INFORMATION

10. QtrQtr: SWSE Sec: 25 Twp: 9N Rng: 60W Meridian: 6Latitude: 40.714690 Longitude: -104.035220

Footage at Surface: 265 feet FNL/FSL 1354 feet FEL/FWL FEL

11. Field Name: Wildcat Field Number: 9999912. Ground Elevation: 4887 13. County: WELD

14. GPS Data:

Date of Measurement: 02/18/2013 PDOP Reading: 1.9 Instrument Operator's Name: Marc Woodard15. If well is ☐ Directional ☒ Horizontal (highly deviated) **submit deviated drilling plan.**

Footage at Top of Prod Zone: FNL/FSL 650 FSL 2600 FEL 650 FNL 2600 FEL 650
 Bottom Hole: FNL/FSL 650 FNL 2600 FEL 650
 Sec: 25 Twp: 9N Rng: 60W Sec: 25 Twp: 9N Rng: 60W

16. Is location in a high density area? (Rule 603b)? ☐ Yes ☒ No17. Distance to the nearest building, public road, above ground utility or railroad: 3850 ft18. Distance to nearest property line: 265 ft 19. Distance to nearest well permitted/completed in the same formation(BHL): 650 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	535-265	640	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#: _____23a. 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):

Township 9 North, Rangw 60W of the 6th P.M., Section 25: less 40.35 acres in the NW

25. Distance to Nearest Mineral Lease Line: 650 ft

26. Total Acres in Lease: 608

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
CONDUCTOR	16	15+1/4	65	0	70	7	70	0
SURF	12+1/4	9+5/8	36	0	1,417	534	1,417	0
1ST	8+3/4	7	23	0	6,346	656	6,346	0
1ST LINER	6+1/4	4+1/2	11.6	5594	10,841			

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

33. Comments Over the weekend while drilling the Shull 4-25-9-60 at 4,127', the drilling string became mechanically stuck from 3,581' to 3,983', and after several hrs of jarring attempts, a 402' fish starting at 3,581' consisting of heavy weight drill pipe, drill collars, steering tools (gamma was retrieved), mud motor, and a drill bit was left down hole. Two cement plugs were pumped at 2,806'-1,959' and at 1,915'-1,509'. A side track last night was drilled off the cement plug at 1,509'. 9-5/8" surface casing was set at 1,425'. The top of production and proposed TD footages will remain the same as permitted. Approval was given by Diana Burn 7/15/2013.

34. Location ID: 432177

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: 7/15/2013 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: 7/21/2013

API NUMBER

05 123 37243 01

Permit Number: _____ Expiration Date: 7/20/2015

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 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
400447687	FORM 2 SUBMITTED
400447780	OTHER
400447816	DEVIATED DRILLING PLAN
400447832	DIRECTIONAL DATA

Total Attach: 4 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Final review completed.	7/16/2013 2:31:44 PM
Permit	Corrected operator comments per operator.	7/16/2013 12:48:50 PM
Permit	Unplanned sidetrack. Public and LGD comment period waived.	7/15/2013 4:02:46 PM

Total: 3 comment(s)

BMP

<u>Type</u>	<u>Comment</u>