

FORM  
2

Rev  
12/05

# State of Colorado Oil and Gas Conservation Commission

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Document Number:

400403603

Date Received:

04/15/2013

PluggingBond SuretyID

20120105

## APPLICATION FOR PERMIT TO:

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

### 2. TYPE OF WELL

OIL  GAS  COALBED  OTHER \_\_\_\_\_  
SINGLE ZONE  MULTIPLE  COMMINGLE

Refiling

Sidetrack

3. Name of Operator: CARRIZO NIOBRARA LLC

4. COGCC Operator Number: 10439

5. Address: 500 DALLAS STREET #2300

City: HOUSTON State: TX Zip: 77002

6. Contact Name: Tina Taylor Phone: (713)328-1000 Fax: (713)328-1060

Email: tina.taylor@crzo.net

7. Well Name: Nelson Ranches Well Number: 1-33-10-59

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

9. Proposed Total Measured Depth: 12430

## WELL LOCATION INFORMATION

10. QtrQtr: SWSE Sec: 28 Twp: 10N Rng: 59W Meridian: 6

Latitude: 40.804320 Longitude: -103.981150

Footage at Surface: 941 feet FSL 1727 feet FEL

11. Field Name: Wildcat Field Number: 99999

12. Ground Elevation: 5214 13. County: WELD

### 14. GPS Data:

Date of Measurement: 03/13/2013 PDOP Reading: 3.5 Instrument Operator's Name: Marc Woodard

15. 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 \_\_\_\_\_  
600 FNL 700 FEL 650 FSL 650 FEL  
Sec: 33 Twp: 10N Rng: 59W Sec: 33 Twp: 10N Rng: 59W

16. Is location in a high density area? (Rule 603b)?  Yes  No

17. Distance to the nearest building, public road, above ground utility or railroad: 3650 ft

18. Distance to nearest property line: 904 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	535-329	320	E/2

21. Mineral Ownership:  Fee  State  Federal  Indian Lease #: 3681996

22. Surface Ownership:  Fee  State  Federal  Indian

23. 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  No

23b. 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 10 North, Range 59W of the 6th P.M., Section 33: NE4/NE4, S/2NE/4, NE/4SE/4 (This wellbore produces from multiple leases)

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
CONDUCTOR	16	15+1/4	65	0	60	6	60	0
SURF	12+1/4	9+5/8	36	0	1,448	534	1,448	60
1ST	8+3/4	7	23	0	6,745	892	6,745	1,400
1ST LINER	6+1/4	4+1/2	11.6	5733	12,430			

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

33. Comments Swell Packer will be set beyond 600' from section line to keep wellbore from 7" casing shoe to Swell Packer unproduced

34. Location ID: \_\_\_\_\_

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: 4/15/2013 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: 6/25/2013

#### API NUMBER

05 123 37593 00

Permit Number: \_\_\_\_\_ Expiration Date: 6/24/2015

#### 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 48 hour notice prior to spud via electronic Form 42.
- 2) Provide cement coverage to a minimum of 200' above Niobrara. Verify coverage with cement bond log.
- 3) 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
400403603	FORM 2 SUBMITTED
400403699	WELL LOCATION PLAT
400403700	DEVIATED DRILLING PLAN
400403704	DIRECTIONAL DATA

Total Attach: 4 Files

**General Comments**

<b><u>User Group</u></b>	<b><u>Comment</u></b>	<b><u>Comment Date</u></b>
Permit	Final Review Completed. No LGD or public comment received.	6/24/2013 3:51:09 PM
Permit	Per operator corrected TOP and lease description.	6/24/2013 1:28:14 PM
Permit	Proposed wellbore is not legal based on recently approved order 535-329.	5/5/2013 3:47:12 PM
Permit	Per operator corrected distance to nearest wellbore, distance to nearest property line, surface and minerals information, and removed swell packer comment. On hold pending finalized hearing.	5/7/2013 2:43:19 PM
Engineer	No existing wells within 500' of proposed directional.	4/30/2013 1:38:34 PM
Permit	Requested updated distance to nearest wellbore, corrected distance to nearest property line, surface and minerals information, and information on swell packer comment. Initial review complete. Horizontal wellbore crosses lease line, distance from wellbore to unit boundary 600'.	4/29/2013 3:44:52 PM

Total: 6 comment(s)

## BMP

<u>Type</u>	<u>Comment</u>
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. Operator shall not allow any fluids to flow back to the Fresh Water Storage Pit/Pond.
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.
Drilling/Completion Operations	Fresh water for the Fresh Water Storage Pit comes from water provider; water sources permitted for consumable industrial use. 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. Operator will participate in the Colorado Oil & Gas Association Voluntary Baseline Groundwater Quality Sampling Program. 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.
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.
Planning	A Form 15 Pit Report will be submitted within 30 days of construction of the fresh water storage pit.

Total: 6 comment(s)