

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:

400422531

Date Received:

06/28/2013

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: State Well Number: 2-36-9-61

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

9. Proposed Total Measured Depth: 10792

WELL LOCATION INFORMATION

10. QtrQtr: NENE Sec: 36 Twp: 9N Rng: 61W Meridian: 6

Latitude: 40.711710 Longitude: -104.149490

Footage at Surface: 302 feet FNL 1041 feet FEL

11. Field Name: Wildcat Field Number: 99999

12. Ground Elevation: 4932 13. County: WELD

14. GPS Data:

Date of Measurement: 05/09/2013 PDOP Reading: 2.6 Instrument Operator's Name: Marc Woodard

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

Footage at Top of Prod Zone: 600 FNL 600 FEL Bottom Hole: 600 FSL 600 FEL  
Sec: 36 Twp: 9N Rng: 61W Sec: 36 Twp: 9N Rng: 61W

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: 270 ft

18. Distance to nearest property line: 302 ft 19. Distance to nearest well permitted/completed in the same formation(BHL): 458 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	535-341	640	ALL

21. Mineral Ownership:  Fee  State  Federal  Indian Lease #: 3756608

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 9 North, Range 61W of the 6th P.M., Section 36: ALL

25. Distance to Nearest Mineral Lease Line: 600 ft

26. Total Acres in Lease: 640

### 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	1443	534	1443	60
1ST	8+3/4	7	23	0	6652	571	6652	1443
1ST LINER	6+1/4	4+1/2	11.6	5927	10792			

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

33. Comments Hearing date was June 16, 2013. 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: 6/28/2013 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: 8/28/2013

<b>API NUMBER</b> 05 123 37897 00	Permit Number: _____	Expiration Date: <u>8/27/2015</u>
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**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.**

<b>COA Type</b>	<b>Description</b>
	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.
	Operator acknowledges the proximity of the following wells: Vessels State #1 (123-07673), Sohio State #2 (123-07185), Sohio State #1 (123-09178). Operator agrees to: provide mitigation option 3 (per the DJ Basin Horizontal Offset Policy) to mitigate the situation, ensure all applicable documentation is submitted based on the selected mitigation option chosen, and submit a Form 42 ("OTHER – AS SPECIFIED BY PERMIT CONDITION") stating what appropriate mitigation occurred and that it has been completed, prior to the hydraulic stimulation of this well.

**Applicable Policies and Notices to Operators**

Notice Concerning Operating Requirements for Wildlife Protection.

**Attachment Check List**

<b>Att Doc Num</b>	<b>Name</b>
400422531	FORM 2 SUBMITTED
400440517	DEVIATED DRILLING PLAN
400440536	DIRECTIONAL DATA
400440639	OFFSET WELL EVALUATION
400440669	WELL LOCATION PLAT

Total Attach: 5 Files

**General Comments**

<b>User Group</b>	<b>Comment</b>	<b>Comment Date</b>
Permit	Final Review Completed. No LGD or public comment received.	8/26/2013 11:01:42 AM
Engineer	Received re-entry plan for Carrizo's State 36 pad wells indicating that the 3 referenced offset wells will be reentered to plug. Removed hold.	8/26/2013 8:36:28 AM
Engineer	On Hold - Wells within 1500' of the proposed directional plan lack adequate formation isolation: Vessels State #1, 123-07673, (lacks aquifer isolation, Niobrara isolation marginal 10 sx at stub) Sohio State #2, 123-07185, (lacks aquifer and Niobrara isolation) Sohio State #1, 123-09178, (lacks aquifer and Niobrara isolation) Emailed operator rep (tina.taylor@crzo.net).	7/17/2013 9:23:36 AM
Permit	Per operator input comment regarding swell packer and order number.	7/15/2013 2:04:09 PM
Permit	Requested spacing order information and information on how Carrizo intends to make the TOP legal. Initial review complete.	7/12/2013 6:34:17 AM
Permit	State land board ok with location and bond.	7/11/2013 3:45:23 PM
Permit	Form passes completeness.	7/1/2013 12:54:24 PM

Total: 7 comment(s)

## Best Management Practices

No	BMP/COA Type	Description
1	Planning	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.
2	Planning	A Form 15 Pit Report will be submitted within 30 days of construction of the fresh water storage pit.
3	Pre-Construction	The COGCC to be notified 48 hours prior to construction of the Fresh Water Storage Pit.
4	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.
5	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.
6	Construction	The location will be fenced and the fenced area will include the Fresh Water Storage Pit.

Total: 6 comment(s)