

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:

400334043

Date Received:

10/08/2012

PluggingBond SuretyID

20100108

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 OIL & GAS INC

4. COGCC Operator Number: 10338

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: Pergamos Well Number: 4-3-7-60

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

9. Proposed Total Measured Depth: 10617

WELL LOCATION INFORMATION

10. QtrQtr: Lot 3 Sec: 3 Twp: 7N Rng: 60W Meridian: 6

Latitude: 40.610800 Longitude: -104.083150

Footage at Surface: 254 feet FNL/FSL 1351 feet FEL/FWL  
FNL FWL

11. Field Name: Wildcat Field Number: 99999

12. Ground Elevation: 4921 13. County: WELD

14. GPS Data:

Date of Measurement: 10/18/2012 PDOP Reading: 1.8 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  
650 FNL 2002 FWL 650 FSL 2004 FWL  
Sec: 3 Twp: 7N Rng: 60W Sec: 3 Twp: 7N Rng: 60W

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: 240 ft

18. Distance to nearest property line: 254 ft 19. Distance to nearest well permitted/completed in the same formation(BHL): 676 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	535-216	640	Sect 3 All

21. Mineral Ownership: ☒ Fee ☐ State ☐ Federal ☐ Indian Lease #: \_\_\_\_\_

22. Surface Ownership: ☒ Fee ☐ State ☐ Federal ☐ Indian

23. Is the Surface Owner also the Mineral Owner? ☐ Yes ☒ No Surface Surety ID#: 20100170

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 7 North, Range 60 West of the 6th P.M.: Section 3: N1/2, SW1/4,& SE1/4 Section 4: E1/2

25. Distance to Nearest Mineral Lease Line: 0 ft 26. Total Acres in Lease: 960

### 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	0	6,449	575	6,449	1,400
1ST LINER	6+1/4	4+1/2	11.6	5733	10,616			

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

33. Comments No conductor will be set. Down Spacing Hearing will be on November 15, 2012. Swell Packer will be set across 600' from section line to keep wellbore from 7" casing shoe to swell packer unproduced.

34. Location ID: 429096

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: 10/8/2012 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: 11/30/2012

#### API NUMBER

05 123 36337 00

Permit Number: \_\_\_\_\_ Expiration Date: 11/29/2014

#### 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 48 hour notice prior to spud via electronic Form 42.
- 2) Provide cement coverage from base of intermediate casing 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
2172844	SURFACE CASING CHECK
2233110	DEVIATED DRILLING PLAN
2233156	WELL LOCATION PLAT
400334043	FORM 2 SUBMITTED
400339250	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	Input spacing order number from November hearing. Final Review Completed. No LGD or public comment received.	11/28/2012 12:39:09 PM
Permit	Per operator corrected SHL and GPS information in relation to the SHL move.	11/28/2012 9:55:16 AM
Permit	On hold pending November hearing.	10/30/2012 9:55:31 AM
Permit	Per operator uploaded new directional template, deviated drilling plan, and well location plat. Waiting on operator to correct all fields.	10/25/2012 10:55:28 AM
Permit	Horizontal well crosses lease lines within GWA horizontal wellbore unit; distance to lease line is 0'; distance to unit boundary is 650'.	10/18/2012 1:10:31 PM
Permit	Input distance to nearest lease and distance to nearest road and distance to lease line per operator.	10/15/2012 12:08:12 PM
Permit	Requested distance to nearest road and distance to nearest lease. Operator has submitted a spacing order for November hearing. Initial review complete.	10/15/2012 10:36:01 AM
Permit	Operator amended footage at p.z. to match well location plat. This form passed completeness.	10/9/2012 9:44:40 AM
Permit	Return to draft: 1. footage at prod. zone (650' FSL) does not match well location plat p.z. (650' FNL).	10/9/2012 8:19:49 AM
Permit	Return to draft: 1. footage at prod. zone (650' FSL) does not match well location plat p.z. (650' FNL).	10/8/2012 5:56:52 PM

Total: 10 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.
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.
Construction	The location will be fenced.

Total: 3 comment(s)