

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:

400297397

Date Received:

06/20/2012

PluggingBond SuretyID

20100108

APPLICATION FOR PERMIT TO:

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

2. TYPE OF WELL

OIL ☒ GAS ☐ COALBED ☐ OTHER Horizontal  
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: 2-4-34-7-60

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

9. Proposed Total Measured Depth: 10692

WELL LOCATION INFORMATION

10. QtrQtr: SWSE Sec: 4 Twp: 7N Rng: 60W Meridian: 6

Latitude: 40.597260 Longitude: -104.093180

Footage at Surface: 108 feet FSL 1366 feet FEL

11. Field Name: Wildcat Field Number: 99999

12. Ground Elevation: 4910 13. County: WELD

14. GPS Data:

Date of Measurement: 03/19/2012 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 1850 FEL 650 FSL 1850 FEL  
Sec: 9 Twp: 7N Rng: 60W Sec: 9 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: 5280 ft

18. Distance to nearest property line: 108 ft 19. Distance to nearest well permitted/completed in the same formation(BHL): 1200 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	535-41	640	Sec. 9

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#:

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 9: All

25. Distance to Nearest Mineral Lease Line: 108 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
SURF	12+1/4	9+5/8	36	0	1,400	534	1,400	0
1ST	8+3/4	7	23	0	6,361	588	6,361	1,400
1ST LINER	6+1/4	4+1/2	11.6	0	10,692	354	10,692	5,610

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

33. Comments No conductor casing will be set.

34. Location ID: 423984

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: 6/20/2012

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: \_\_\_\_\_

Director of COGCC

Date: 6/28/2012

#### API NUMBER

05 123 35804 00

Permit Number: \_\_\_\_\_

Expiration Date: 6/27/2014

#### 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 spud 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.

### Attachment Check List

Att Doc Num	Name
2532610	SURFACE AGRMT/SURETY
2532614	WAIVERS
2532615	WAIVERS
2532616	EXCEPTION LOC REQUEST
2532617	VARIANCE REQUEST
400297397	FORM 2 SUBMITTED
400297469	OIL & GAS LEASE
400297470	OIL & GAS LEASE
400297479	DEVIATED DRILLING PLAN
400297491	DIRECTIONAL DATA
400297676	CONST. LAYOUT DRAWINGS
400297678	HYDROLOGY MAP
400297679	LOCATION DRAWING
400297681	MULTI-WELL PLAN
400297682	LOCATION PICTURES
400297683	REFERENCE AREA MAP
400297685	WELL LOCATION PLAT
400297686	OTHER
400297687	REFERENCE AREA PICTURES
400297689	ACCESS ROAD MAP

Total Attach: 20 Files

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Final review completed; no LGD or public comment received.	6/27/2012 12:24:31 PM
Permit	Operator is requesting exigent circumstances under Rule 318.I.2 to maintain continued use of rig drilling from this pad location. Variance request, LGD and surface owner waivers attached.	6/27/2012 12:12:19 PM
Permit	Updated permit with exception location request. Operator has submitted the SUA. The surface owner owns both properties on either side of the section line and is aware of the exception request.	6/27/2012 12:11:04 PM
Permit	Updated permit with surface use agreement.	6/27/2012 11:04:07 AM
Permit	On hold - Need surface use agreement attachment with this permit also.	6/22/2012 6:59:30 AM
Permit	On hold - Operator requests approval of a Rule 603.a.(2) exception location. Waiting on request and waiver.	6/22/2012 6:54:30 AM
Permit	Changed distance to another well completed in the same formation to 1200 feet to reflect the distance to proposed lateral wellbores being drilled from the same pad.	6/22/2012 6:53:10 AM

Total: 7 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/Pond.
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.
Planning	A Form 15 Pit Report will be submitted within 30 days of construction of the fresh water storage pit.

Total: 8 comment(s)