

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:

400293197

Date Received:

06/07/2012

PluggingBond SuretyID

20100108

APPLICATION FOR PERMIT TO:

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

2. TYPE OF WELL

OIL ☒ GAS ☐ COALBED ☐ OTHER ☐ Pilot ☐
 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: WEP Well Number: 1-20-11-3-64

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

9. Proposed Total Measured Depth: 8096

WELL LOCATION INFORMATION

10. QtrQtr: NWNW Sec: 20 Twp: 3S Rng: 64W Meridian: 6

Latitude: 39.782290 Longitude: -104.579080

Footage at Surface: 267 feet FNL/FSL 1215 feet FEL/FWL
 FNL FWL

11. Field Name: Wildcat Field Number: 99999

12. Ground Elevation: 5424 13. County: ADAMS

14. GPS Data:

Date of Measurement: 05/17/2012 PDOP Reading: 2.6 Instrument Operator's Name: Dave Murrey

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

Sec: Twp: Rng: Sec: Twp: Rng:

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: 267 ft 19. Distance to nearest well permitted/completed in the same formation(BHL): 1300 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	535-172	640	Sec. 17

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 3 South, Range 64 West: Section 17: SW/4 except portion lying within existing county roads.

25. Distance to Nearest Mineral Lease Line: 267 ft 26. Total Acres in Lease: 132

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	1,800	534	1,800	0
OPEN HOLE	8+3/4			1800	8,096	909	8,096	6,500

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

33. Comments This is a Pilot Hole for informational purposes only and will be plugged back at TD with 909 sacks of cement. Top of cement will be 6500. No conductor casing will be set. Spacing application filed for July hearing.

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: 6/7/2012 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: 9/18/2012

API NUMBER

05 001 09757 00

Permit Number: _____ Expiration Date: 9/17/2014

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) Note surface casing setting depth change from 1400' to 1800'. Increase cement coverage accordingly.
- 2) Submit Form 42 electronically to COGCC 48 hours prior to MIRU.

Attachment Check List

Att Doc Num	Name
1792512	WELL LOCATION PLAT
2532528	SURFACE AGRMT/SURETY
400293197	FORM 2 SUBMITTED
400293213	SURFACE AGRMT/SURETY

Total Attach: 4 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Final review completed.	9/18/2012 5:49:22 AM
Permit	As per operator's comment this wellbore will not be produced.	8/31/2012 7:42:24 AM
Permit	This is the pilot of a pilot/lateral drilling plan and this permit should have a sidetrack designation in the API number.	6/25/2012 6:07:04 AM
LGD	<p>The applicant has agreed to the following best management practices:</p> <ol style="list-style-type: none"> 1. Use closed looped systems; and 2. Undertake a water quality sampling program (within a 1-mile radius from the wells), including City owned wells that serve the Front Range Airport. <p>Since the applicant has agreed to these best management practices, would you please attach them as conditions to the permit?</p>	6/15/2012 11:30:12 AM
Permit	On hold - pending July hearing.	3/8/2012 1:48:27 PM
Permit	Is this section of land (sec 17)being spaced as was setion 20? Sections are not spaced now.	3/8/2012 6:32:54 AM
Permit	SUA submitted? Should they be bonding on?	3/8/2012 6:31:51 AM
Permit	Changed distance to another well completed in the same formation to 1300 feet to reflect the distance to proposed lateral wellbores being drilled from the same pad.	3/8/2012 6:27:13 AM
LGD	This appears to be the City of Aurora Jurisdiction. Please refer to them.	3/8/2012 6:18:09 AM
Permit	Pilot hole shown on drawing.	3/7/2012 1:08:01 PM
Permit	Returned to draft. No pilot hole shown on Deviated Drilling Plan.	6/7/2012 12:00:12 PM

Total: 11 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.
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)