

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:

400312004

Date Received:

08/02/2012

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: Bringelson Ranch Well Number: 2-20-11-9-58

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

9. Proposed Total Measured Depth: 10265

WELL LOCATION INFORMATION

10. QtrQtr: NWNW Sec: 20 Twp: 9N Rng: 58W Meridian: 6

Latitude: 40.740330 Longitude: -103.896670

Footage at Surface: 1278 feet FNL/FSL 275 feet FEL/FWL
FNL FWL

11. Field Name: Wildcat Field Number: 99999

12. Ground Elevation: 4868 13. County: WELD

14. GPS Data:

Date of Measurement: 07/25/2012 PDOP Reading: 2.3 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
2144 FNL 650 FWL 1900 FNL 650 FEL
Sec: 20 Twp: 9N Rng: 58W Sec: 20 Twp: 9N Rng: 58W

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: 275 ft 19. Distance to nearest well permitted/completed in the same formation(BHL): 1250 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	535-3	640	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#:

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 58W of the 6th P.M., Section 20 ALL Surface owner has a working intrest in the entire section.

25. Distance to Nearest Mineral Lease Line: 0 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	20	19+1/4	94	0	60	6	60	0
SURF	12+1/4	9+5/8	36	0	1,400	534	1,400	60
1ST	8+3/4	7	23	0	6,274	618	6,274	1,400
1ST LINER	6+1/4	4+1/2	11.6	0	10,265	362	10,265	5,213

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

33. Comments _____

34. Location ID: 423722

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: 8/2/2012 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: 9/13/2012

API NUMBER

05 123 36068 00

Permit Number: _____ Expiration Date: 9/12/2014

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.

Attachment Check List

Att Doc Num	Name
2233017	DEVIATED DRILLING PLAN
2233018	WELL LOCATION PLAT
400312004	FORM 2 SUBMITTED
400312017	OTHER
400325264	DIRECTIONAL DATA

Total Attach: 5 Files

General Comments

User Group	Comment	Comment Date
Permit	Final Review Completed. No LGD or public comment received.	9/10/2012 4:04:33 PM
Permit	Corrected mineral information, SHL, and production information per operator. Distance to nearest well is the Bringelson Ranch 20-11-9-58 (AL). Operator plans on refileing well with new spacing order.	9/10/2012 3:18:17 PM
Permit	Attached new plat, template, and deviated drill plan per operator. Requested updated information for new well path. Operator abandoned 123-33689 so this will be the only horizontal in the section.	9/10/2012 1:05:10 PM
Engineer	Received from operator (TT): new directional plan, template and plat showing >300' from wellpath to Bringelson #5-20.	8/29/2012 1:53:25 PM
Permit	On Hold. Order 535-3 does not allow for two horizontals in section. Order for pooling 535-164 was continued Oct hearing. Contacted operator.	8/27/2012 12:14:41 PM
Engineer	<p>emailed operator- Situation: The proposed wellpath comes within 300' of the following DA/PA Well(s): BRINGELSON #5-20, API#123-18956, SWNW 20-9N-58W. The referenced DA/PA well(s) lacks isolation below the base of the Fox Hills aquifer and above the Niobrara. To reduce the risk of impacting aquifers or oil & gas zones other than the Niobrara via the referenced DA/PA well(s), no segments of the proposed borehole within 300' of the referenced DA/PA well(s) shall be stimulated.</p> <p>Mitigation Options: 1. Revise the path of the proposed wellbore to create the minimum 300' setback from an inadequately plugged well 2. Exclude the segment of the proposed wellbore within 300' of an inadequately plugged well from the hydraulic fracture treatment 3. Re-enter and re-plug the inadequately plugged well</p>	8/21/2012 1:09:26 PM
Permit	Requested information on other wells in section and mineral and surface owner.	8/17/2012 10:49:33 AM

Total: 7 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.
Site Specific	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.

Total: 9 comment(s)