

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80205 Phone: (303) 894-2100 Fax: (303) 894-2109



DE	ET	OE	ES
----	----	----	----

Document Number:

400237197

PluggingBond SuretyID

20100108

APPLICATION FOR PERMIT TO:

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

2. TYPE OF WELL

OIL ☒ GAS ☐ COALBED ☐ OTHER Pilot Hole
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)358-6440
- Email: tina.taylor@crzo.net
7. Well Name: Castor Well Number: 2-36-31-9-59
8. Unit Name (if appl): _____ Unit Number: _____
9. Proposed Total Measured Depth: 7028

WELL LOCATION INFORMATION

10. QtrQtr: NWNE Sec: 36 Twp: 9N Rng: 59W Meridian: 6
Latitude: 40.713820 Longitude: -103.921200

			FNL/FSL		FEL/FWL
Footage at Surface:	240	feet	FNL	1331	feet FEL

11. Field Name: Wildcat Field Number: 99999
12. Ground Elevation: 4911 13. County: WELD

14. GPS Data:
- Date of Measurement: 11/11/2011 PDOP Reading: 1.7 Instrument Operator's Name: Marc Woodard

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

Footage at Top of Prod Zone:			Bottom Hole:		
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: 330 ft
18. Distance to nearest property line: 240 ft 19. Distance to nearest well permitted/completed in the same formation(BHL): 1129 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	535-102	640	SEC 36

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):

N/2 T9N R59W Sec. 36 6th PM

25. Distance to Nearest Mineral Lease Line: 240 ft

26. Total Acres in Lease: 320

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: Landfarm Burial/Evaporation

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
OPEN HOLE	8+3/4			1400	7,028	1,169	7,028	4,975

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 1169 sacks of cement. Top of cement will be 4975. No conductor casing will be set.

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: 1/4/2012 Email: tina.taylor@crzo.net

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: David S. Nesline

Director of COGCC Date: 1/29/2012

API NUMBER

05 123 35005 00

Permit Number: _____ Expiration Date: 1/28/2014

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.

If a pilot well is being drilled to a depth of 2500 feet or more and the operator plans to complete it, than it must be 600 feet from a lease line and be at least 1200 feet from a well permitted/producing from the same formation, or requires an approved exception location. per rule 318a.

- 1) Provide 48 hour notice of MIRU to Jim Precup by e-mail at james.precup@state.co.us. Indicate Spud Notice in the subject line and provide the following information: Operator Name, Well Name and Number, API #, Spud Date, Contact Name, Contact Phone #, Email Address.
- 2) Plug back pilot hole: Niobrara, Codell, D-Sand and J-Sand must be isolated.

Attachment Check List

Att Doc Num	Name
400237197	FORM 2 SUBMITTED
400237213	WELL LOCATION PLAT
400237215	DEVIATED DRILLING PLAN
400237216	OIL & GAS LEASE
400237252	MULTI-WELL PLAN

Total Attach: 5 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	No LGD or public comment received; final review completed.	1/27/2012 5:55:34 AM
Permit	Notified the state land board.	1/4/2012 5:17:08 PM
Permit	Operator corrected surface and minerals. This form has passed completeness.	1/4/2012 12:47:42 PM
Permit	Returned to draft. Does the state own the minerals?	1/4/2012 12:13:11 PM
Permit	Returned to draft. Does the state own the minerals?	1/4/2012 10:47:56 AM

Total: 5 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)