

FORM
2

Rev
12/05

State of Colorado
Oil and Gas Conservation Commission

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



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Document Number:

400184824

PluggingBond SuretyID

20100152

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: CONTINENTAL RESOURCES INC

4. COGCC Operator Number: 10347

5. Address: PO BOX 1032

City: ENID State: OK Zip: 73703

6. Contact Name: Pam Combest Phone: (580)548-5213 Fax: (580)548-5293

Email: pamcombest@contres.com

7. Well Name: Hahn Well Number: 1-4H

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

9. Proposed Total Measured Depth: 10583

WELL LOCATION INFORMATION

10. QtrQtr: SESE Sec: 4 Twp: 7N Rng: 62W Meridian: 6

Latitude: 40.597141 Longitude: -104.319125

Footage at Surface: 480 feet FNL/FSL 700 feet FEL/FWL FEL

11. Field Name: Keota Field Number: 44350

12. Ground Elevation: 4848 13. County: WELD

14. GPS Data:

Date of Measurement: 07/12/2011 PDOP Reading: 0.9 Instrument Operator's Name: Steven A. Lund

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

Footage at Top of Prod Zone: FNL/FSL 956 FSL 700 FEL 660 FEL/FWL 700 FEL 660
Sec: 4 Twp: 7N Rng: 62W Sec: 4 Twp: 7N Rng: 62W

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: 470 ft

18. Distance to nearest property line: 480 ft 19. Distance to nearest well permitted/completed in the same formation: 4267 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	535-51	640	SEC 4

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#: 20100153

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):

All of Section 4-7N-62W

25. Distance to Nearest Mineral Lease Line: 660 ft

26. Total Acres in Lease: 641

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: Evaporation and backfill

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	16	50	0	60	30	60	0
SURF	13+1/2	9+5/8	36	0	650	237	650	0
1ST	8+3/4	7	26	0	6,919	1,160	6,919	0
1ST LINER	6	4+1/2	11.6	6120	10,583			

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

33. Comments

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: Pam Combest

Title: Regulatory Compliance Date: 7/14/2011 Email: pamcombest@contres.com

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: 8/20/2011

API NUMBER

05 123 34199 00

Permit Number: _____ Expiration Date: 8/19/2013

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 550' to 650'. Increase cement coverage accordingly and cement to surface.
- 2)Provide 24 hour notice of MIRU to Bo Brown via e-mail at bo.brown@state.co.us.
- 3)Comply with Rule 317.i and provide cement coverage from the end of the production casing to a minimum of 200' above the Niobrara. Verify coverage with cement bond log.
- 4)Comply with Rule 321. Run and submit Directional Survey from the end of production casing 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
2481065	SURFACE CASING CHECK
400184824	FORM 2 SUBMITTED
400185073	DRILLING PLAN
400185084	WELL LOCATION PLAT

Total Attach: 4 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	On hold waiting for August hearing.	7/14/2011 1:54:59 PM
Permit	Need a SUA or surface bond. SJF	7/14/2011 1:11:51 PM

Total: 2 comment(s)

BMP

<u>Type</u>	<u>Comment</u>

Total: 0 comment(s)