

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

Document Number:
400146668

PluggingBond SuretyID
20100152

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)5485213 Fax: (580)5485293
Email: pamcombest@contres.com

7. Well Name: Dunn Well Number: 1-13H

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

9. Proposed Total Measured Depth: 16209

WELL LOCATION INFORMATION

10. QtrQtr: NENE Sec: 13 Twp: 8N Rng: 62W Meridian: 6
Latitude: 40.668132 Longitude: -104.260679

Footage at Surface: 250 feet FNL 660 feet FEL

11. Field Name: Keota Field Number: 44350

12. Ground Elevation: 4995 13. County: WELD

14. GPS Data:
Date of Measurement: 03/10/2011 PDOP Reading: 1.7 Instrument Operator's Name: Mark A. Hall

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

727 FNL 660 FEL 660 FSL 660 FEL

Sec: 13 Twp: 8N Rng: 62W Sec: 24 Twp: 8N 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: 240 ft

18. Distance to nearest property line: 250 ft 19. Distance to nearest well permitted/completed in the same formation: 1700

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	1280	Sec 13 & 24

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 13 & 24-T8N-R62W

25. Distance to Nearest Mineral Lease Line: 660 ft 26. Total Acres in Lease: 1280

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	26	16	50	0	60	30	60	0
SURF	13+1/2	9+5/8	36	0	745	229	745	0
1ST	8+3/4	7	26	0	6,945	591	6,945	0
1ST LINER	6	4+1/2	11.6	6195	16,209			

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

33. Comments Spacing application filed for June 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: Pam Combest

Title: Regulatory Compliance Date: 3/25/2011 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: 8/14/2011

API NUMBER
05 123 34135 00

Permit Number: _____ Expiration Date: 8/13/2013

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.

Note surface casing setting depth change from 535' to 745'. Increase cement coverage accordingly and cement to surface.

- 1) Provide 24 hr notice of MIRU to Bo Brown at email at bo.brown@state.co.us.
- 2) Set surface casing per Rule 317d, cement to surface. Setting surface casing less than the approved depth is a permit violation unless prior written approval is obtained from the COGCC.
- 3) If completed, provide cement coverage from the intermediate casing shoe to a minimum of 200' above Niobrara. Verify cement with a cement bond log.
- 4) If hole is abandoned with production liner, then set 40 sks cement in casing at the intermediate casing shoe, cut off casing above top of cement.
- 5) If dry hole without production liner, then set 40 sks cement in open hole 50' above Niobrara top.
- 6) With either 4 or 5 above, set 50 sks cement ½ out, ½ in surface casing, 10 sks cement top of surface casing, cut 4' below ground level, weld on plate, 5 sks cement in rat hole & 5 sks cement in mouse hole.
- 7) Comply with Rule 321. 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
2112204	SURFACE CASING CHECK
400146668	FORM 2 SUBMITTED
400146708	DEVIATED DRILLING PLAN
400146709	WELL LOCATION PLAT
400146710	HYDROLOGY MAP
400146711	ACCESS ROAD MAP
400146712	LOCATION DRAWING
400146713	LOCATION PICTURES

Total Attach: 8 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	ON HOLD: 1106-SP-52 continued to August 8th hearing.	6/28/2011 3:12:09 PM
Permit	Added acres for the lease.	3/30/2011 12:56:38 PM
Permit	On hold waiting pending spacing application. 1106-sp-52 in June	3/30/2011 12:54:25 PM
Permit	Opr - Pam instructed to add number of acres in lease. sf	3/30/2011 9:25:10 AM
Permit	What are the total amount of acres in the lease?	3/28/2011 1:54:58 PM

Total: 5 comment(s)

BMP

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

Total: 0 comment(s)