

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:

400445568

Date Received:

07/26/2013

PluggingBond SuretyID

20090078

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: PDC ENERGY INC 4. COGCC Operator Number: 69175

5. Address: 1775 SHERMAN STREET - STE 3000  
City: DENVER State: CO Zip: 80203

6. Contact Name: Julie Webb Phone: (303)831-3933 Fax: ()  
Email: julie.webb@pdce.com

7. Well Name: Ram Land Well Number: 30G-303

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

9. Proposed Total Measured Depth: 11728

WELL LOCATION INFORMATION

10. QtrQtr: NWSW Sec: 30 Twp: 4N Rng: 66W Meridian: 6

Latitude: 40.282170 Longitude: -104.825650

Footage at Surface: 2487 feet FSL 1151 feet FWL

11. Field Name: Wattenberg Field Number: 90750

12. Ground Elevation: 4758 13. County: WELD

14. GPS Data:

Date of Measurement: 06/07/2013 PDOP Reading: 2.1 Instrument Operator's Name: Wyatt 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 \_\_\_\_\_  
1840 FSL 110 FWL 2158 FNL 120 FWL  
Sec: 30 Twp: 4N Rng: 66W Sec: 31 Twp: 4N Rng: 66W

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: 839 ft

18. Distance to nearest property line: 175 ft 19. Distance to nearest well permitted/completed in the same formation(BHL): 352 ft

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		320	GWA

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):

The NWSW of Sec 30 T4N R66W. Horizontal wellbore crosses multiple lease lines in drilling and spacing unit. Distance to mineral lease line is 0'. Distance to unit boundary is 500'.

25. Distance to Nearest Mineral Lease Line: 0 ft 26. Total Acres in Lease: 35

### 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	875	830	875	0
1ST	8+3/4	7	26	0	7734	650	6524	500
1ST LINER	6+1/8	4+1/2	11.6	6524	11728			

32. BOP Equipment Type:  Annular Preventer  Double Ram  Rotating Head  None  
33. Comments 7" casing string will be cemented to at least 200' above Niobrara, around 500' from surface. CBL will only be run in the vertical section of the wellbore. Conductor casing will not be used. Operator requests an exception location per rule 318Aa and rule 318Ac: well will not be drilled in a legal drilling window or twinned with an existing well. Waivers attached. Per rule 318Ae, the Operator requests the proposed spacing unit consisting of 320 acres, W2SW of Sec. 30, E2SE of Sec. 25, W2NW of Sec. 31, E2NE of Sec 36 T4N R66W. Proposed spacing unit map and 30-day certificate is attached. Distance to nearest well measured to Lair 2. Please see the Anti-Collision Report in the Deviated Drilling plan for details.

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: Julie Webb  
Title: Regulatory Analyst Date: 7/26/2013 Email: julie.webb@pdce.com

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: 9/13/2013

API NUMBER: 05 123 38007 00 Permit Number: \_\_\_\_\_ Expiration Date: 9/12/2015

#### 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.

<b>COA Type</b>	<b>Description</b>
	Operator must meet water well testing requirements per Rule 318A.
	Switched setting depth of 7" casing and 4 1/2" liner which were reversed with concurrence of operator.
	1) Submit Form 42 electronically to COGCC 48 hours prior to MIRU.. 2) Comply with Rule 317.i and provide cement coverage from end of 7" casing to a minimum of 200' above Niobrara and from 200' below Shannon to 200' above Shannon. Verify coverage with cement bond log. 3) 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.
	Operator acknowledges the proximity of the Gurley 11-31 API # 123-14313, Gress 23-30 API # 123-14314, and State of Colorado AC-1 API # 123-07948. Operator agrees to: provide mitigation option 1, 2 or 3 (per the DJ Basin Horizontal Offset Policy) to mitigate the situation, ensure all applicable documentation is submitted based on the selected mitigation option chosen, and submit a Form 42 ("OTHER – AS SPECIFIED BY PERMIT CONDITION") stating what appropriate mitigation occurred and that it has been completed, prior to the hydraulic stimulation of this well.

### **Applicable Policies and Notices to Operators**

Notice Concerning Operating Requirements for Wildlife Protection.

### **Attachment Check List**

<b>Att Doc Num</b>	<b>Name</b>
400445568	FORM 2 SUBMITTED
400449265	DIRECTIONAL DATA
400449267	DEVIATED DRILLING PLAN
400449269	PLAT
400449278	30 DAY NOTICE LETTER
400449280	EXCEPTION LOC WAIVERS
400449304	EXCEPTION LOC REQUEST
400449376	PROPOSED SPACING UNIT
400452580	OFFSET WELL EVALUATION

Total Attach: 9 Files

### **General Comments**

<b>User Group</b>	<b>Comment</b>	<b>Comment Date</b>
Final Review	CORRECT Unit Configuration is W2SW of Sec. 30 & W2NW of Sec. 31 T4N R66W, E2SE of Sec. 25 & E2NE of Sec 36 T4N R67W.	9/13/2013 8:48:42 AM
Permit	Final review complete.	9/11/2013 9:49:56 AM
Permit	Corrected lease description as per opr.	9/6/2013 10:21:05 AM
Permit	This form has passed completeness.	7/29/2013 12:10:58 PM

Total: 4 comment(s)

### **Best Management Practices**

<b>No</b>	<b>BMP/COA Type</b>	<b>Description</b>