

**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:  
400214172

PluggingBond SuretyID  
20090078

3. Name of Operator: PETROLEUM DEVELOPMENT CORPORATION      4. COGCC Operator Number: 69175

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

6. Contact Name: Liz Lindow      Phone: (303)831-3974      Fax: ()  
Email: llindow@petd.com

7. Well Name: Moss      Well Number: 14-16H

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

9. Proposed Total Measured Depth: 10534

**WELL LOCATION INFORMATION**

10. QtrQtr: SWSW      Sec: 16      Twp: 7N      Rng: 65W      Meridian: 6  
Latitude: 40.568870      Longitude: -104.676790

Footage at Surface: \_\_\_\_\_ feet      FNL/FSL \_\_\_\_\_ feet      FEL/FWL \_\_\_\_\_ feet

11. Field Name: Wattenberg      Field Number: 90750

12. Ground Elevation: 4862      13. County: WELD

14. GPS Data:  
Date of Measurement: 08/27/2011      PDOP Reading: 2.0      Instrument Operator's Name: Thomas Carlson

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

560      FSL      980      FWL      560      FSL      1279      FEL

Sec: 16      Twp: 7N      Rng: 65W      Sec: 16      Twp: 7N      Rng: 65W

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: 200 ft

18. Distance to nearest property line: 180 ft      19. Distance to nearest well permitted/completed in the same formation(BHL): 3497 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		160	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):  
 SW/4, SW/4SE/4, W2NW/4SE/4, and a small portion just east of the border between the SW/4SE/4 and SE/4SE/4 of Section 16 T7N R65W

25. Distance to Nearest Mineral Lease Line: 50 ft                      26. Total Acres in Lease: 216

**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: closed loop

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	159	875	0
1ST	8+3/4	7	26	0	7,600	809	7,600	600
1ST LINER	6+1/8	4+1/2	11.6	6393	10,534			

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

33. Comments    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. Waviers attached. Per rule 318Ae, the Operator requests the proposed spacing unit consisting of 160 acres, S2S2 of Sec 16 T7N R 65W. Proposed spacing unit map and 30-day certificate is attached. The Moss SW-16 Pad in the SW/4 and the Mis SE-16 Pad in the SE/4 of section 16 T7N R65W will be abandoned.

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: Liz Lindow

Title: Permit Representative                      Date: 10/12/2011                      Email: llindow@petd.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. Neslin                      Director of COGCC                      Date: 11/13/2011

<b>API NUMBER</b>
05 123 34688 00

Permit Number: \_\_\_\_\_                      Expiration Date: 11/12/2013

**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.**

Operator must meet water well sampling requirements as per Rule 318A.

- 1) Provide 24 hour notice of MIRU to Jim Precup via e-mail at jim.precup@state.co.us.
- 2) 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 a cement bond log.
- 3) 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
2481253	SURFACE CASING CHECK
2531419	WELL LOCATION PLAT
400214172	FORM 2 SUBMITTED
400214198	30 DAY NOTICE LETTER
400214199	DEVIATED DRILLING PLAN
400214200	EXCEPTION LOC WAIVERS
400214202	TOPO MAP
400214205	EXCEPTION LOC REQUEST
400214207	PROPOSED SPACING UNIT

Total Attach: 9 Files

### **General Comments**

<b><u>User Group</u></b>	<b><u>Comment</u></b>	<b><u>Comment Date</u></b>
Permit	Updated permit with new location plat.	11/9/2011 3:50:42 PM
Permit	No LGD or public comment received; final review completed.	11/8/2011 6:28:41 AM
Permit	Well location appears to be much closer to the road and property line than reported. Notified I Lundlow.	11/7/2011 6:15:03 AM
Permit	Operator corrected bond and horizontal information. Form has passed completeness.	10/17/2011 6:56:06 AM
Permit	Returned to draft. Invalid plugging bond. Well should be horizontal instead of directional.	10/13/2011 7:12:49 AM

Total: 5 comment(s)

### **BMP**

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

Total: 0 comment(s)