

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



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

## APPLICATION FOR PERMIT TO:

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

## 2. TYPE OF WELL

 OIL ☐ GAS ☒ COALBED ☐ OTHER \_\_\_\_\_  
 SINGLE ZONE ☐ MULTIPLE ZONE ☒ COMMINGLE ZONE ☐
Refiling ☐Sidetrack ☐

Document Number:

400073048

Plugging Bond Surety

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: Kelly Huffman Phone: (303)831-3974 Fax: (303)860-5838

Email: khuffman@petd.com

7. Well Name: Ryland Well Number: 20YD

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

9. Proposed Total Measured Depth: 7929

## WELL LOCATION INFORMATION

10. QtrQtr: NESW Sec: 21 Twp: 4N Rng: 67W Meridian: 6

Latitude: 40.295160 Longitude: -104.899690

 Footage at Surface: 1464 FNL/FSL 1612 FEL/FWL  
 FSL FWL

11. Field Name: Wattenberg Field Number: 90750

12. Ground Elevation: 4940 13. County: WELD

## 14. GPS Data:

Date of Measurement: 03/10/2010 PDOP Reading: 6.0 Instrument Operator's Name: Thomas G. 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  
 50 FSL 50 FEL 50 FSL 50 FEL  
 Sec: 20 Twp: 4N Rng: 67W Sec: 20 Twp: 4N Rng: 67W
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: 1119 ft

18. Distance to nearest property line: 90 ft 19. Distance to nearest well permitted/completed in the same formation: 289 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 Codell        | NBCD           | 407-87                  | 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#: 19990086

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 Bon ☐ \$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):  
 Township 4 North, Range 67 West, 6th P.M. Section 21: W/2 (and lands in other sections); Township 4 North, Range 67 West, 6th P.M. Section 20: E/2 (and lands in other sections)

25. Distance to Nearest Mineral Lease Line: 50 ft 26. Total Acres in Lease: 787

### 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 27 or 28 are yes, is this location in a sensitive area (Rule 903)? ☐ Yes ☐ No If 28, 29, or 30 are "Yes" a pit permit may be required.

31. Mud disposal: ☒ Offsite ☐ Onsite

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 | Weight Per Foot | Setting Depth | Sacks Cement | Cement Bottom | Cement Top |
|-------------|--------------|----------------|-----------------|---------------|--------------|---------------|------------|
| SURF        | 12+1/4       | 8+5/8          | 24              | 650           | 390          | 650           | 0          |
| S.C. 1.1    | 7+7/8        | 4+1/2          | 10.5            | 7,929         | 264          | 7,929         | 6,529      |

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

33. Comments Conductor casing will not be used. The Ryland 20YD will be drilled from the same pad as the Walters 21ODU, 23-21DU, 21QDU, 24-21DU, 21LDU, Ryland 20XD, Wedco 13-21DU and 14-21DU. The well will be tied into an existing tank battery facility located at the Bunyan 1 well.

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: Kelly Huffman

Title: Contract Land Tech Date: \_\_\_\_\_ Email: khuffman@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: \_\_\_\_\_ Director of COGCC Date: \_\_\_\_\_

|                  |   |
|------------------|---|
| API NUMBER<br>05 | Permit Number: _____ Expiration Date: _____ |
|------------------|---|

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.

### **Attachment Check List**

| Att Doc Num | Name                   | Doc Description   |
|-------------|------------------------|---|
| 400073049   | PLAT                   | Ryland 20YD - Plat.pdf  |
| 400073050   | TOPO MAP               | Ryland 20YD - TOPO.pdf  |
| 400073051   | DEVIATED DRILLING PLAN | Ryland 20YD Deviated Drilling Plan.pdf                                |
| 400073052   | EXCEPTION LOC WAIVERS  | Walters Pad_PLW_Signed_042010_scan.pdf                                |
| 400073053   | EXCEPTION LOC WAIVERS  | Walters Pad_SLW_Signed_042010_scan.pdf                                |
| 400073054   | EXCEPTION LOC REQUEST  | Walters-Wedco-Ryland Line Waiver Letter to Dir. - PDC.pdf             |
| 400073055   | EXCEPTION LOC REQUEST  | Walters-Wedco-Ryland SLW Letter to Director.pdf                       |
| 400073056   | 30 DAY NOTICE LETTER   | Walters-Wedco-Ryland SW Pad - 305.e Notice.pdf                        |
| 400073321   | CORRESPONDENCE         | Ryland 20YD 20-Day Letter to Dir. for 318Ae Boundary Wells (100%).pdf |
| 400073322   | UNIT CONFIGURATION MAP | Ryland 20YD BHL Map.pdf   |

Total Attach: 10 Files