

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:

400030068

Plugging Bond Surety

20090078

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 ☐

3. Name of Operator: PETROLEUM DEVELOPMENT CORPORATION

4. COGCC Operator Number: 69175

5. Address: 1775 SHERMAN STREET - SUITE 3000

City: DENVER State: CO Zip: 80203

6. Contact Name: Sarah Garrett Phone: (303)860-5803 Fax: (303)860-5838

Email: sgarrett@petd.com

7. Well Name: Cockroft Well Number: 41-19

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

9. Proposed Total Measured Depth: 6750

WELL LOCATION INFORMATION

10. QtrQtr: NENE Sec: 19 Twp: 5N Rng: 63W Meridian: 6

Latitude: 40.389730 Longitude: -104.471910

Footage at Surface: 810 FNL/FSL FNL 520 FEL/FWL FEL

11. Field Name: Wattenberg Field Number: 90750

12. Ground Elevation: 4560 13. County: WELD

14. GPS Data:

Date of Measurement: 01/12/2010 PDOP Reading: 6.0 Instrument Operator's Name: Thomas G Carlson PLS 24657

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 _____

Sec: _____ Twp: _____ Rng: _____ Sec: _____ Twp: _____ Rng: _____

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: 1094 ft

18. Distance to nearest property line: 520 ft 19. Distance to nearest well permitted/completed in the same formation: 1223 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	NB-CD	407-87	80	E/2NE4
Sussex Shannon	SX-SN	N/A	80	E/2NE4

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):
Section 19, Township 5 North, Range 63 West, Part of the E/2NE/4 lying North of CR 388.

25. Distance to Nearest Mineral Lease Line: 520 ft 26. Total Acres in Lease: 62

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	400	290	400	0
1ST	7+7/8	4+1/2	10.5	6,750	200	6,750	5,550

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

33. Comments Conductor casing will not be used. Well will be tied into the existing Christenson 8-19 tank battery.

34. Location ID: 309669

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: Sarah Garrett

Title: Landman Date: 1/21/2010 Email: sgarrett@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. Nashin Director of COGCC Date: 2/26/2010

API NUMBER

05 123 25202 00

Permit Number: _____ Expiration Date: 2/25/2012

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.

COGCC ENG COA – SME 1) Provide 24 hr notice of spud to Provide 24 hour notice of MIRU to Bo Brown at 970-330-6085 or 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 comply with Rule 317.i and provide cement coverage from TD to a minimum of 200' above Niobrara and from 200' below Shannon to 200' above Sussex. Verify coverage with cement bond log. Restore surface location.

Attachment Check List

Att Doc Num	Name	Doc Description
1725538	SURFACE CASING CHECK	LF@2420311 1725538
400030097	PLAT	LF@2221132 400030097
400030098	TOPO MAP	LF@2420866 400030098
400030735	30 DAY NOTICE LETTER	LF@2395180 400030735
400030739	FORM 2 SUBMITTED	LF@2221136 400030739

Total Attach: 5 Files