

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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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:

400072111

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: Carlson Well Number: 2PD

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

9. Proposed Total Measured Depth: 7599

WELL LOCATION INFORMATION

10. QtrQtr: NESW Sec: 2 Twp: 6N Rng: 66W Meridian: 6

Latitude: 40.515910 Longitude: -104.745420

Footage at Surface: 2101 FNL/FSL FSL 2595 FEL/FWL FWL

11. Field Name: Wattenberg Field Number: 90750

12. Ground Elevation: 4860 13. County: WELD

14. GPS Data:

Date of Measurement: 06/13/2010 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 1314 FSL 2620 FEL/FWL FWL Bottom Hole: FNL/FSL 1314 FSL 2620 FEL/FWL FWL
Sec: 2 Twp: 6N Rng: 66W Sec: 2 Twp: 6N 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: 2000 ft

18. Distance to nearest property line: 107 ft 19. Distance to nearest well permitted/completed in the same formation: 692 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	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 6 North, Range 66 West, 6th P.M. Section 2: SW/4, except Lot A of Recorded Exemption No. 0805-2-3-RE-1502 and except Lot A of Recorded Exemption No. 0805-02-3-re-3813; Township 6 North, Range 66 West, 6th P.M. Section 2: That part of the S/2SW/4 described as Lot A of Recorded Exemption No. 0805-2-3-RE-1502

25. Distance to Nearest Mineral Lease Line: 66 ft 26. Total Acres in Lease: 159

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	500	650	0
S.C. 1.1	7+7/8	4+1/2	10.5	7,599	525	7,599	0

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

33. Comments Conductor casing will not be used. The Carlson 2OD, 2BD, 2PD and 23-2D will all be drilled from the same pad. The wells will be tied into a tank battery facility located approximately 100' south of the well site. Proposed GWA Unit Configuration for NB-CD: E/2SW, W/2SE; Petroleum Development Corporation requests approval of a Rule 603.a.(2) exception location: Wellhead is to be located less than 150' from a property line. Petroleum Development Corporation requests approval of a Rule 318Aa and Rule 318Ac exception location: Wellhead is to be located outside of a GWA drilling window and will be located more than 50' from an existing well location.

34. Location ID: 419058

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: 8/23/2010 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: David S. Neslin Director of COGCC Date: 9/21/2010

Permit Number: _____ Expiration Date: 9/20/2012

API NUMBER

05 123 32235 00

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.

- 1) Provide 24 hour notice of MIRU to Ed Binkley at 970-506-9834 or e-mail at ed.binkley@state.co.us
- 2) 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.
- 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.

Attachment Check List

Att Doc Num	Name	Doc Description
400072111	FORM 2 SUBMITTED	LF@2529030 400072111
400073954	PROPOSED SPACING UNIT	LF@2529031 400073954
400073957	PLAT	LF@2529032 400073957
400073959	TOPO MAP	LF@2529033 400073959
400073960	30 DAY NOTICE LETTER	LF@2529034 400073960
400073965	PROPOSED SPACING UNIT	LF@2529035 400073965
400086849	DEVIATED DRILLING PLAN	LF@2529036 400086849
400086850	EXCEPTION LOC REQUEST	LF@2529037 400086850
400086851	EXCEPTION LOC WAIVERS	LF@2529038 400086851
400086852	EXCEPTION LOC WAIVERS	LF@2529039 400086852
400086853	EXCEPTION LOC REQUEST	LF@2529040 400086853

Total Attach: 11 Files

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