

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:
400089366
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: Knievel Well Number: 13-12D

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

9. Proposed Total Measured Depth: 7811

WELL LOCATION INFORMATION

10. QtrQtr: NESW Sec: 12 Twp: 6N Rng: 67W Meridian: 6
Latitude: 40.498930 Longitude: -104.842440

Footage at Surface: 1678 FNL/FSL FSL 2447 FEL/FWL FWL

11. Field Name: Severance Field Number: 77030

12. Ground Elevation: 4866 13. County: WELD

14. GPS Data:

Date of Measurement: 09/12/2010 PDOP Reading: 1.9 Instrument Operator's Name: Brian T. Brinkman

15. If well is Directional Horizontal (highly deviated) **submit deviated drilling plan.**

Footage at Top of Prod Zone: FNL/FSL 2026 FSL 782 FWL 782 FEL/FWL 2026 FSL 782 FWL 782
Sec: 12 Twp: 6N Rng: 67W Sec: 12 Twp: 6N 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: 178 ft

18. Distance to nearest property line: 184 ft 19. Distance to nearest well permitted/completed in the same formation: 1000 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	W/2SW/4
Sussex Shannon	SX-SN	N/A	80	W/2SW/4

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 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 67 West of 6th PM, Section 12: SW/4

25. Distance to Nearest Mineral Lease Line: 685 ft 26. Total Acres in Lease: 160

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
1ST	7+7/8	4+1/2	10.5	7,811	525	7,811	0

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

33. Comments Conductor casing will not be used. The Knievel 13-12D, 23-12D, 12BD, 14-12D and 24-12D will all be drilled from the same pad. The wells will be tied into a tank battery facility on site approximately 100' to the east. 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: _____

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: Permit Specialist Date: 10/11/2010 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: 11/4/2010

API NUMBER 05 123 32532 00	Permit Number: _____	Expiration Date: <u>11/3/2012</u>
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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.

Because the well head is located 178' from an above ground utility, the derrick height may not exceed 118' as measured from the ground.

- 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
2622100	WELL LOCATION PLAT	LF@2612992 2622100
400089366	FORM 2 SUBMITTED	LF@2601822 400089366
400089389	30 DAY NOTICE LETTER	LF@2601823 400089389
400089391	EXCEPTION LOC REQUEST	LF@2601824 400089391
400099461	PLAT	LF@2601825 400099461
400099462	DEVIATED DRILLING PLAN	LF@2601826 400099462
400099464	EXCEPTION LOC WAIVERS	LF@2601827 400099464

Total Attach: 7 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Per Kelly Huffman, change Petroleum Development Corporation concurs with derrick height COA. PVG	10/19/2010 5:00:26 PM

Total: 1 comment(s)

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