

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:
400063444
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: P&H Well Number: 22SD

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

9. Proposed Total Measured Depth: 7064

WELL LOCATION INFORMATION

10. QtrQtr: SWNE Sec: 22 Twp: 5N Rng: 64W Meridian: 6
Latitude: 40.387060 Longitude: -104.533470

Footage at Surface: 1836 FNL/FSL FNL 1966 FEL/FWL FEL

11. Field Name: Wattenberg Field Number: 90750

12. Ground Elevation: 4600 13. County: WELD

14. GPS Data:

Date of Measurement: 04/20/2010 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 2559 FNL 1316 FEL 2559 FNL 1316 FEL
Sec: 22 Twp: 5N Rng: 64W Sec: 22 Twp: 5N Rng: 64W

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: 227 ft

18. Distance to nearest property line: 184 ft 19. Distance to nearest well permitted/completed in the same formation: 850 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):
Please see attached lease map.

25. Distance to Nearest Mineral Lease Line: 336 ft 26. Total Acres in Lease: 133

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
1ST	7+7/8	4+1/2	10.5	7,064	121	5,664	7,064
S.C. 1.1	7+7/8	4+1/2	10.5	7,064	121	5,664	7,064

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

33. Comments Conductor casing will not be used. The P&H 22SD will be drilled from the same pad as the P&H 22CD. The well will be tied into an existing tank battery facility located at the P&H 22-42 well. Proposed spacing unit is N/2SE4, S/2NE4. Operator requests the approval of an exception location to rule 318Ac. waiver attached.

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 Technician Date: 6/14/2010 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: 7/11/2010

API NUMBER
05 123 31849 00

Permit Number: _____ Expiration Date: 7/10/2012

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 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, 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.
- 4) If dry hole, set 60 sks cement from 50' below D Sand base to 100' above D Sand top, 40 sks cement 50' above Niobrara top, 40 sks cement 50' above Shannon top, 40 sks cement 50' above Sussex top, 50 sks cement ½ out, ½ in surface casing, 10 sks cement top of surface casing, cut 4' below GL, weld on plate, 5 sks cement in rat hole & 5 sks cement in mouse hole. Restore surface location.
- 5) 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
400063444	FORM 2 SUBMITTED	LF@2490853 400063444
400063470	PLAT	LF@2490854 400063470
400063471	TOPO MAP	LF@2490855 400063471
400063472	DEVIATED DRILLING PLAN	LF@2490856 400063472
400063473	UNIT CONFIGURATION MAP	LF@2490857 400063473
400067208	EXCEPTION LOC WAIVERS	LF@2490858 400067208
400067209	30 DAY NOTICE LETTER	LF@2490859 400067209
400067211	EXCEPTION LOC REQUEST	LF@2490860 400067211
400068244	LEASE MAP	LF@2490861 400068244
400069043	PROPOSED SPACING UNIT	LF@2490862 400069043

Total Attach: 10 Files