

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:

400060842

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 - STE 3000
- City: DENVER State: CO Zip: 80203
6. Contact Name: Kelly Huffman Phone: (303)831-5974 Fax: (303)860-5838
- Email: khuffman@petd.com
7. Well Name: Bauer Debus Well Number: 22AD
8. Unit Name (if appl): _____ Unit Number: _____
9. Proposed Total Measured Depth: 7057

WELL LOCATION INFORMATION

10. QtrQtr: NENW Sec: 22 Twp: 5N Rng: 64W Meridian: 6
Latitude: 40.390400 Longitude: -104.538770
Footage at Surface: 621 FNL 1863 FWL
11. Field Name: Wattenberg Field Number: 90750
12. Ground Elevation: 4575 13. County: WELD

14. GPS Data:
- Date of Measurement: 04/08/2010 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:				Bottom Hole:			
FNL/FSL		FEL/FWL		FNL/FSL		FEL/FWL	
<u>1323</u>	<u>FNL</u>	<u>1333</u>	<u>FWL</u>	<u>1323</u>	<u>FNL</u>	<u>1333</u>	<u>FWL</u>
Sec: <u>22</u>	Twp: <u>5N</u>	Rng: <u>64W</u>		Sec: <u>22</u>	Twp: <u>5N</u>	Rng: <u>64W</u>	

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: 621 ft
18. Distance to nearest property line: 621 19. Distance to nearest well permitted/completed in the same formation: 915 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	NW/4
Sussex Shannon	SX-SN	N/A	160	NW/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#: 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 Bond ☐ \$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: 199 ft 26. Total Acres in Lease: 117

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	7,057	120	7,057	5,657
S.C. 1.1	7+7/8	4+1/2	10.5	7,057	120	7,057	5,657

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

33. Comments Conductor casing will not be used. The Bauer Debus 22AD will be drilled from the same pad as the Bauer Debus 22JD, 22MD, and 22ND well. The well will be tied into the Bauer Debus tank battery which will be added to the existing tank battery facility located at the Joshua #1 well. Operator requests 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 31846 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. Verify coverage with cement bond log.
- 4) 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
1725969	SURFACE CASING CHECK	LF@2497694 1725969
400060842	FORM 2 SUBMITTED	LF@2491103 400060842
400060843	WELL LOCATION PLAT	LF@2491118 400060843
400060844	TOPO MAP	LF@2491119 400060844
400063178	DEVIATED DRILLING PLAN	LF@2491121 400063178
400067268	EXCEPTION LOC REQUEST	LF@2491123 400067268
400068237	EXCEPTION LOC WAIVERS	LF@2491125 400068237
400068238	LEASE MAP	LF@2491127 400068238
400068240	30 DAY NOTICE LETTER	LF@2491128 400068240

Total Attach: 9 Files