

FORM

2

Rev  
12/05

## State of Colorado

## Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 894-2100 Fax: (303) 894-2109



Document Number:

400347764

Date Received:

11/20/2012

PluggingBond SuretyID

20080034

## APPLICATION FOR PERMIT TO:

1. ☒ Drill, ☐ Deepen, ☐ Re-enter, ☐ Recomplete and Operate

## 2. TYPE OF WELL

OIL ☒ GAS ☐ COALBED ☐ OTHER \_\_\_\_\_  
 SINGLE ZONE ☐ MULTIPLE ☒ COMMINGLE ☐

Refiling ☐Sidetrack ☐3. Name of Operator: BAYSWATER EXPLORATION AND PRODUCTION LLC4. COGCC Operator Number: 102615. Address: 730 17TH ST STE 610City: DENVER State: CO Zip: 802026. Contact Name: Jennifer Angel-Lear Phone: (303)407-1282 Fax: (720)536-3440Email: jangellear@petro-fs.com7. Well Name: Hirsch Well Number: 19-24

8. Unit Name (if appl): \_\_\_\_\_ Unit Number: \_\_\_\_\_

9. Proposed Total Measured Depth: 7920

## WELL LOCATION INFORMATION

10. QtrQtr: NENE Sec: 26 Twp: 7N Rng: 67W Meridian: 6Latitude: 40.551107Longitude: -104.851802

Footage at Surface: 459 feet FNL/FSL 254 feet FEL/FWL FEL

11. Field Name: Wattenberg Field Number: 9075012. Ground Elevation: 4953 13. County: WELD

## 14. GPS Data:

Date of Measurement: 05/21/2012 PDOP Reading: 1.8 Instrument Operator's Name: Brian Ritz15. If well is ☒ Directional ☐ Horizontal (highly deviated) **submit deviated drilling plan.**

Footage at Top of Prod Zone: FNL/FSL 802 FSL 868 FWL 1220 FSL 1220 FWL 1220  
 Bottom Hole: FNL/FSL 1220 FSL 1220 FWL 1220  
 Sec: 24 Twp: 7N Rng: 67W Sec: 24 Twp: 7N Rng: 67W

16. Is location in a high density area? (Rule 603b)? ☒ Yes ☐ No17. Distance to the nearest building, public road, above ground utility or railroad: 260 ft18. Distance to nearest property line: 260 ft 19. Distance to nearest well permitted/completed in the same formation(BHL): 788 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.) |
|------------------------|----------------|-------------------------|-------------------------------|--------------------------------------|
| CODELL                 | CODL           |                         | 160                           | SW/4                                 |
| GREENORN               | GRNH           |                         | 160                           | SW/4                                 |
| NIOBRARA               | NBRR           |                         | 160                           | SW/4                                 |
| SHANNON                | SNSD           |                         | 160                           | SW/4                                 |
| SUSSEX                 | SUSX           |                         | 160                           | SW/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 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):

Sec. 24 SW, S2NW T7N, R67W Containing 240 Acres

25. Distance to Nearest Mineral Lease Line: 1220 ft 26. Total Acres in Lease: 240

### 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 28 or 29 are yes, is this location in a sensitive area (Rule 901.e)? ☒ Yes ☐ No

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 | Wt/Ft | Csg/Liner Top | Setting Depth | Sacks Cmt | Cmt Btm | Cmt Top |
|-------------|--------------|----------------|-------|---------------|---------------|-----------|---------|---------|
| SURF        | 12+1/4       | 8+5/8          | 24    | 0             | 720           | 504       | 720     | 0       |
| 1ST         | 7+7/8        | 4+1/2          | 11.6  | 0             | 7,920         | 916       | 7,920   | 3,275   |

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

33. Comments No Conductor Casing will be set. Location Exception Waiver per COGCC Rule 318Aa and 318Ac is attached. The Nashland 1 well is a PA well. Unit configuration: SW 1/4 of sec. 24

34. Location ID: 430703

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: Jennifer Angel-Lear

Title: Regulatory Technician Date: 11/20/2012 Email: jangellear@petro-fs.com

Operator must have a valid water right or permit allowing for industrial use or purchased water from a seller that has a valid water right or permit allowing for industrial use, otherwise an application for a change in type of use is required under Colorado law. Operator must also use the water in the location set forth in the water right decree or well permit, otherwise an application for a change in place of use is required under Colorado law. Section 37-92-103(5), C.R.S. (2011).

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: Matthew Lee Director of COGCC Date: 12/16/2012

| API NUMBER      |
|-----------------|
| 05 123 36414 00 |

Permit Number: \_\_\_\_\_ Expiration Date: 12/15/2014

### 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) Submit Form 42 electronically to COGCC 48 hours prior to MIRU..
- 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.

Operator must meet Water Well Testing requirements as per amended Rule 318Ae(4)

### **Applicable Policies and Notices to Operators**

Notice Concerning Operating Requirements for Wildlife Protection.

### **Attachment Check List**

| Att Doc Num | Name                   |
|-------------|------------------------|
| 400347764   | FORM 2 SUBMITTED       |
| 400347835   | DIRECTIONAL DATA       |
| 400347839   | SURFACE AGRMT/SURETY   |
| 400347841   | EXCEPTION LOC REQUEST  |
| 400347842   | EXCEPTION LOC WAIVERS  |
| 400347845   | WELL LOCATION PLAT     |
| 400347847   | DEVIATED DRILLING PLAN |

Total Attach: 7 Files

### **General Comments**

| <b><u>User Group</u></b> | <b><u>Comment</u></b>   | <b><u>Comment Date</u></b> |
|--------------------------|---|----------------------------|
| Permit                   | Final Review Completed. No LGD or public comment received.  | 12/14/2012<br>10:29:33 AM  |
| Permit                   | Operator requests approval of a Rule 318Aa and Rule 318Ac exception location:<br>Wellhead is to be located outside of a GWA drilling window and will be located more than 50' from an existing well location. Request and waivers attached.<br><br>Ready to pass pending public comment 12/14/12. | 12/3/2012<br>11:53:27 AM   |

Total: 2 comment(s)

## BMP

| <u>Type</u>                    | <u>Comment</u>   |
|--------------------------------|--|
| Planning                       | When feasible develop multiple well sites by using directional drilling to reduce cumulative impacts and adverse impacts on wildlife resources.  |
| Drilling/Completion Operations | When available and reasonable use a closed-loop drilling mud system to preclude the use of an earthen reserve pits when available. Light Sources will likewise be directed downwards, and away from occupied structures where possible. Once the drilling and completions rigs leave the site, there will be no permanently installed lighting on site. The operator will work with the Town of Severance to develop a traffic plan for access to the locations and traffic through Town streets.                        |
| Site Specific                  | Fence the well site after drilling to restrict public and wildlife access.<br>Keep well site location, the road, and the pipeline easement free of noxious weeds, litter and debris.<br>Spray for noxious weeds, and implement dust control, as needed.<br>Operator will not permit the release or discharge of any toxic or hazardous chemicals or wastes on Owner's Land.<br>Construct and maintain gates where any roads used by operator, its employees, or contractors cross through fences on the leased premises. |
| Storm Water/Erosion Control    | Use water bars, and other measures to prevent erosion and non-source pollution. Implement and maintain BMPs to control stormwater runoff in a manner that minimizes erosion, transport of sediment offsite, and site degradation.<br>Co-locate gas and water gathering lines whenever feasible, and mitigate any erosion problems that arise due to the construction of any pipeline(s).   |
| Construction                   | Remove only the minimum amount of vegetation necessary for the construction of roads and facilities.<br>Conserve topsoil during excavation and reuse as cover on disturbed areas to facilitate regrowth of vegetation.<br>No construction or routine maintenance activities will be performed during periods when the soil is too wet to adequately support construction equipment.  |
| Interim Reclamation            | Utilize only such area around each producing well as is reasonably necessary.<br>Restore the remainder of the well site location to its original condition within a reasonable time after the completion of operations.<br>All reseeding shall be done with grasses consistent with the Rocky Mountain native mix or other grasses reasonably requested by surface owner and during planting period suggested by Owner.  |
| Final Reclamation              | All surface restoration shall be accomplished to the satisfaction of Owner.<br>All reseeding shall be done with grasses consistent with the Rocky Mountain native mix or other grasses reasonably requested by surface owner and during planting period suggested by Owner.<br>Final reclamation shall be completed to the reasonable satisfaction of the Owner as soon as practical after installation (weather permitting) and in accordance with regulatory agency standards (BLM/COGCC).                             |

Total: 7 comment(s)