

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:

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Date Received:

07/30/2013

PluggingBond SuretyID

20010023

## 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: K P KAUFFMAN COMPANY INC

4. COGCC Operator Number: 46290

5. Address: 1675 BROADWAY, STE 2800

City: DENVER State: CO Zip: 80202

6. Contact Name: Susana Lara-Mesa Phone: (303)825-4822 Fax: (303)825-4825

Email: slaramesa@kpk.com

7. Well Name: Bernhardt Well Number: #18-8H

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

9. Proposed Total Measured Depth: 11496

## WELL LOCATION INFORMATION

10. QtrQtr: SWSW Sec: 18 Twp: 4N Rng: 66W Meridian: 6

Latitude: 40.305780 Longitude: -104.829140

Footage at Surface: 487 feet FNL/FSL 158 feet FEL/FWL  
 FSL FWL

11. Field Name: Wattenberg Field Number: 90750

12. Ground Elevation: 4719 13. County: WELD

## 14. GPS Data:

Date of Measurement: 06/12/2013 PDOP Reading: 2.5 Instrument Operator's Name: E. Davis

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

Footage at Top of Prod Zone: FNL/FSL FEL/FWL Bottom Hole: FNL/FSL FEL/FWL  
 586 FSL 701 FWL 460 FSL 460 FEL  
 Sec: 18 Twp: 4 Rng: 66 Sec: 18 Twp: 4 Rng: 66

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: 219 ft

18. Distance to nearest property line: 412 ft 19. Distance to nearest well permitted/completed in the same formation(BHL): 397 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               | NBRR           |                         | 160                           | GWA                                  |

21. Mineral Ownership: ☒ Fee ☐ State ☐ Federal ☐ Indian Lease #: \_\_\_\_\_22. Surface Ownership: ☒ Fee ☐ State ☐ Federal ☐ Indian23. 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 ☒ No23b. 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):

25. Distance to Nearest Mineral Lease Line: 412 ft26. Total Acres in Lease: 320**DRILLING PLANS AND PROCEDURES**27. Is H2S anticipated? ☐ Yes ☒ No If Yes, attach contingency plan.28. Will salt sections be encountered during drilling? ☐ Yes ☒ No29. Will salt (>15,000 ppm TDS CL) or oil based muds be used during drilling? ☐ Yes ☒ No30. If questions 28 or 29 are yes, is this location in a sensitive area (Rule 901.e)? ☐ Yes ☐ No31. Mud disposal: ☒ Offsite ☐ Onsite

If 28, 29, or 30 are "Yes" a pit permit may be required.

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        | 13+3/4       | 9+5/8          | 36    | 0             | 700           | 320       | 700     | 0       |
| 1ST         | 8+3/4        | 7              | 26    | 0             | 7425          | 650       | 7425    | 0       |
| 1ST LINER   | 6+1/8        | 4+1/2          | 11.6  | 7225          | 11496         | 0         |         |         |

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

33. Comments Proposed spacing unit is S/2S/2 of Section 18-T4N-R66W. No conductor casing will be used. Operator 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. Request and waivers attached. Waivers are highlighted in SUA. KMG release letter has been attached. See correspondence

34. Location ID: \_\_\_\_\_

35. Is this application in a Comprehensive Drilling Plan? ☐ Yes ☐ No36. 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.

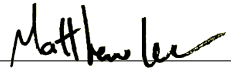
Signed: \_\_\_\_\_

Print Name: Susana Lara-MesaTitle: Engineering Project Mgr.Date: 7/30/2013Email: slaramesa@kpk.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: \_\_\_\_\_



Director of COGCC

Date: 11/5/2013**API NUMBER**

05 123 38379 00

Permit Number: \_\_\_\_\_

Expiration Date: 11/4/2015**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.

**Description**

1) Submit Form 42 electronically to COGCC 48 hours prior to MIRU.  
2) Comply with Rule 317.i and provide cement coverage from the end of the 7" casing shoe to a minimum of 200' above Niobrara. Verify coverage with cement bond log.  
3) Run and submit Directional Survey from TD to base of surface casing. The operator shall comply with Rule 321, and it shall be the operator's responsibility to 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 per Rule 318A.

**Applicable Policies and Notices to Operators**

Notice Concerning Operating Requirements for Wildlife Protection.

**Attachment Check List**

| <b>Att Doc Num</b> | <b>Name</b>            |
|--------------------|------------------------|
| 2167337            | CORRESPONDENCE         |
| 2167456            | OFFSET WELL EVALUATION |
| 400407545          | FORM 2 SUBMITTED       |
| 400450995          | EXCEPTION LOC REQUEST  |
| 400456986          | EXCEPTION LOC REQUEST  |
| 400458708          | SURFACE AGRMT/SURETY   |
| 400458773          | LEASE MAP              |
| 400458780          | DEVIATED DRILLING PLAN |
| 400459396          | DIRECTIONAL DATA       |
| 400459773          | PROPOSED SPACING UNIT  |
| 400459775          | PLAT                   |

Total Attach: 11 Files

**General Comments**

| <b>User Group</b> | <b>Comment</b>   | <b>Comment Date</b>      |
|-------------------|--|--------------------------|
| Permit            | Final review complete.   | 11/1/2013<br>11:54:46 AM |
| Permit            | Attached correspondence removing KMG obj. as per opr.<br>Moving form back to In Process. | 10/18/2013<br>1:51:44 PM |
| Engineer          | Offset well evaluation completed.  | 9/27/2013<br>11:30:00 AM |
| Permit            | Opr is correcting BHL with new drilling plan. Form on hold.                              | 9/5/2013 2:55:16<br>PM   |
| Permit            | Passed completeness.   | 7/31/2013<br>11:42:27 AM |

Total: 5 comment(s)

## Best Management Practices

| No | BMP/COA Type                           | Description  |
|----|--|--|
| 1  | General Housekeeping                   | Housekeeping will consist of neat and orderly storage of materials and fluids. Wastes will be temporarily stored in sealed containers and regularly collected and disposed of at offsite suitable facilities according to WMP. If spills occur prompt cleanup is required to minimize any commingling of waste materials with stormwater runoff. Routine maintenance will be limited to fueling and lubrication of equipment. Drip pans will be used during routine fueling and maintenance to contain spills or leaks. Any waste product from maintenance will be containerized and transported offsite for disposal at a certified facility. There will be no major equipment overhauls conducted onsite. Equipment will be transported offsite for major overhauls. Cleanup of trash and discarded materials will be conducted at the end of each workday. Cleanup will consist of patrolling the roadway, access areas, and other work areas to pick up trash, scrap debris, other discarded materials, any contaminated soil, and dust control on location. Materials will be disposed of properly.   |
| 2  | Storm Water/Erosion Control            | Storm water Management Plan (SWMP) will be in place to address construction, drilling and operations associated with oil and gas development throughout the state of Colorado in accordance with Colorado Department of Public Health and Environment (CDPHE) General Permit rules. BMP's used will vary according to location, and will remain in place until the pad reached final reclamation.  |
| 3  | Material Handling and Spill Prevention | Spill Prevention Control and countermeasure plan (SPCC) is in place to address construction, drilling and operations associated with oil and gas development throughout the state of Colorado in accordance with CFR 112.  |
| 4  | Drilling/Completion Operations         | <p><b>Pre-Spud Anti-collision</b><br/> Prior to drilling operations, operator will perform an anti-collision scan of existing offset wells that have the potential of being within close proximity of the proposed well. This anti-collision scan will include definitive MWD or gyro surveys of the offset wells with included error of uncertainty per survey instrument, and compared against the proposed wellpath with its respective error of uncertainty. If current surveys do not exist for the offset wells, operator may have gyro surveys conducted to verify bottomhole location. The proposed well will only be drilled if the anti-collision scan results indicate that there is not a risk for collision, or harm to people or the environment. For the proposed well, upon conclusion of drilling operations, an as-constructed gyro survey will be submitted to the COGCC with the Form 5.</p> <p><b>During and Post Stimulation</b><br/> K.P. Kauffman, Inc. will comply with the COGCC Policy for Bradenhead Monitoring during Hydraulic Fracturing Treatments in the Greater Wattenberg Area dated May 29, 2012.</p> <p>At least 90 days prior to fracture stimulation, the Operator shall notify all operators of non-operated wells within 1500' of the wellbore to be fracture stimulated of the anticipated stimulation date and the recommended best management practice to shut-in all wells within 1500' of the stimulated wellbore completed in the same formation. The Operator will monitor bradenhead pressure of all wells under Operator's control within 300 feet of the well which is to be treated, provided such other wells penetrate the productive zone which is to be treated.</p> |

Total: 4 comment(s)