

FORM  
2

Rev  
12/05

# State of Colorado Oil and Gas Conservation Commission

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Document Number:

400444494

Date Received:

07/29/2013

PluggingBond SuretyID

20010124

## 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: KERR-MCGEE OIL & GAS ONSHORE LP 4. COGCC Operator Number: 47120

5. Address: P O BOX 173779  
City: DENVER State: CO Zip: 80217-3779

6. Contact Name: Laura Abrams Phone: (720)929-6356 Fax: (720)929-7356  
Email: laura.abrams@anadarko.com

7. Well Name: KERBS Well Number: 31C-14HZ

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

9. Proposed Total Measured Depth: 17551

## WELL LOCATION INFORMATION

10. QtrQtr: NENE Sec: 13 Twp: 3N Rng: 68W Meridian: 6

Latitude: 40.231014 Longitude: -104.943966

Footage at Surface: 974 feet FNL 622 feet FEL

11. Field Name: Wattenberg Field Number: 90750

12. Ground Elevation: 4884 13. County: WELD

### 14. GPS Data:

Date of Measurement: 03/15/2013 PDOP Reading: 1.6 Instrument Operator's Name: Owen McKee

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

Footage at Top of Prod Zone: 1475 FNL 631 FEL Bottom Hole: 1475 FNL 50 FWL  
Sec: 13 Twp: 3N Rng: 68W Sec: 14 Twp: 3N Rng: 68W

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: 374 ft

18. Distance to nearest property line: 152 ft 19. Distance to nearest well permitted/completed in the same formation(BHL): 88 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		720	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#: 20010125

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):

See attached lease description(s). Horizontal wellbore crosses lease lines within drilling and spacing unit; distance to lease line is 0'; distance to unit boundary is 460'

25. Distance to Nearest Mineral Lease Line: 0 ft 26. Total Acres in Lease: 146

### 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 **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+1/2	9+5/8	36.0	0	1000	380	1000	0
1ST	8+3/4	7	26.0	0	7635	810	7635	0
1ST LINER	6+1/8	4+1/2	11.6	6636	17551			

32. BOP Equipment Type:  Annular Preventer  Double Ram  Rotating Head  None  
33. Comments No conductor casing will be used. Unit Configuration: 3N-68W: SEC. 13: N2; SEC. 14: N2; SEC. 15: E2NEThe surface location of this well is an exception to Rule 318A.a and to Rule 318A.c. This well is not within the GWA surface location window and does not meet the twinning requirement due to the number of wells planned for this area and at the request of the surface owner. An exception location request letter and signed waivers are attached to the Form 2 and Form 2A.Operator will run open hole logs into the surface casing on the first well drilled on this pad.

34. Location ID: 417593  
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: Laura Abrams  
Title: Regulatory Analyst II Date: 7/29/2013 Email: djregulatory@anadarko.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: 11/9/2013

**API NUMBER**  
05 123 38398 00

Permit Number: \_\_\_\_\_ Expiration Date: 11/8/2015

#### 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**

Operator acknowledges the proximity of the following non-operated wells: T 13-3 LDS API # 123-17383, T 13-5 LDS API # 123-17385, 13-8J8 UPV API # 123-18515, 7-13J7 Hicks API # 123-17711, 12-3 Owen API # 123-11096, 12-1 Owen API # 123-10756. Operator assures that these offsets will be remediated per the DJ Basin Horizontal Offset Policy (options 1,2 or 3) or operator will address this well with mitigation option 4. Operator will submit a Form 42 ("OTHER – AS SPECIFIED BY PERMIT CONDITION") stating what appropriate mitigation occurred and that it has been completed, prior to the hydraulic stimulation of this well.

- 1) Submit Form 42 electronically to COGCC 48 hours prior to MIRU.
- 2) Comply with Rule 317.i and provide cement coverage from end of 7" casing to a minimum of 200' above Niobrara and from 200' below the Sussex 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 acknowledges the proximity of the following wells: 22-13 Temple API # 123-18380. Operator agrees to: provide mitigation option 1, 2 or 3 (per the DJ Basin Horizontal Offset Policy) to mitigate the situation, ensure all applicable documentation is submitted based on the selected mitigation option chosen, and submit a Form 42 ("OTHER – AS SPECIFIED BY PERMIT CONDITION") stating what appropriate mitigation occurred and that it has been completed, prior to the hydraulic stimulation of this well.

Operator must meet water well testing requirements per Rule 318A.

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

Notice Concerning Operating Requirements for Wildlife Protection.

Policy for Bradenhead Monitoring During Hydraulic Fracturing Treatments in the Greater Wattenberg Area.

### **Attachment Check List**

<b>Att Doc Num</b>	<b>Name</b>
1695846	WAIVERS
1695847	VARIANCE REQUEST
400444494	FORM 2 SUBMITTED
400444544	DIRECTIONAL DATA
400444547	OTHER
400444548	LEGAL/LEASE DESCRIPTION
400444549	DEVIATED DRILLING PLAN
400444551	PLAT
400444554	PROPOSED SPACING UNIT
400444558	EXCEPTION LOC WAIVERS
400444561	EXCEPTION LOC REQUEST
400452384	OFFSET WELL EVALUATION
400452394	30 DAY NOTICE LETTER

Total Attach: 13 Files

## General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Final Review Completed. No LGD or public comment received.	9/30/2013 9:22:22 AM
Permit	Received and attached 318A.m letter and waiver. ok to pass.	8/22/2013 1:39:42 PM
Permit	ON HOLD: requesting 318A.m letter and waiver.	8/15/2013 1:08:01 PM
Permit	Operator requests approval of a Rule 318Am exception location: Wellbore is to be located less than 150' from an existing wellbore. Request and waivers attached.	8/15/2013 11:54:42 AM
Permit	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.	8/15/2013 11:54:41 AM
Permit	Operator's request for omission of open hole logs.	8/15/2013 11:54:40 AM
Permit	Horizontal wellbore crosses lease lines within drilling and spacing unit; distance to lease line is 0'; distance to unit boundary is 460'.	8/15/2013 11:54:39 AM
Permit	Form passes completeness.	7/30/2013 3:20:06 PM

Total: 8 comment(s)

## Best Management Practices

<u>No</u>	<u>BMP/COA Type</u>	<u>Description</u>
1	Drilling/Completion Operations	Kerr McGee acknowledges and will comply with the COGCC Policy for Bradenhead Monitoring during Hydraulic Fracturing Treatments in the Greater Wattenberg Area dated May 29, 2012.
2	Drilling/Completion Operations	Prior to drilling operations, Operator may perform an anti-collision review of existing offset wells that have the potential of being within close proximity of the proposed well. This anti-collision review may include MWD or gyro surveys and surface locations 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 may only be drilled if the anti-collision review results indicate that the risk of collision is sufficiently low as defined by the anti-collision plan, with separation factors greater than 1.5, or if the risk of collision has been mitigated through other means including shutting in wells, plugging wells, increased drilling fluid in the event of lost returns or as is appropriate for the specific situation. In the event of an increased risk of collision, that risk will be mitigated to prevent harm to people, the environment or property. For the proposed well, upon conclusion of drilling operations, an as-constructed directional survey will be submitted to COGCC with the Form 5.
3	Drilling/Completion Operations	Operator intends to use an oil based drilling fluid during drilling of the lateral section of the wellbore. Cuttings will be processed on location and further remediated in our land farm and/or disposed of at a commercial waste disposal facility. The drilling fluid will be returned to the vendor and/or disposed at a commercial waste disposal facility.

Total: 3 comment(s)