

FORM  
2

Rev  
12/05

# State of Colorado Oil and Gas Conservation Commission

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Document Number:

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Date Received:

07/22/2013

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: Cheryl Light Phone: (720)929-6461 Fax: (720)929-7461

Email: cheryl.light@anadarko.com

7. Well Name: HOWARD Well Number: 4N-29HZ

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

9. Proposed Total Measured Depth: 15183

## WELL LOCATION INFORMATION

10. QtrQtr: SWNW Sec: 32 Twp: 1N Rng: 67W Meridian: 6

Latitude: 40.008552 Longitude: -104.922247

Footage at Surface: 2287 feet FNL/FSL FNL 420 feet FEL/FWL FWL

11. Field Name: WATTENBERG Field Number: 90750

12. Ground Elevation: 5031 13. County: WELD

### 14. GPS Data:

Date of Measurement: 12/07/2012 PDOP Reading: 2.1 Instrument Operator's Name: OWEN MCKEE

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

Footage at Top of Prod Zone: FNL/FSL 1964 FNL 579 FWL \_\_\_\_\_ Bottom Hole: FNL/FSL 1 FNL 595 FWL \_\_\_\_\_  
Sec: 32 Twp: 1N Rng: 67W Sec: 29 Twp: 1N Rng: 67W

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: 450 ft

18. Distance to nearest property line: 353 ft 19. Distance to nearest well permitted/completed in the same formation(BHL): 595 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		280	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#: \_\_\_\_\_

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):

1. See attached lease description. 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: 477

**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	848	330	848	0
1ST	8+3/4	7+0/0	26	0	7,941	840	7,941	0
1ST LINER	6+1/8	4+1/2	11.6	6939	15,183			

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

33. Comments    No conductor casing will be used./UNIT CONFIGURATION: Sec.20: SW/4SW/4, Sec. 29: W/2W/2, Sec. 32: W/2NW/4/The 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: \_\_\_\_\_

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: CHERYL LIGHT

Title: SR. REGULATORY ANALYST                      Date: 7/22/2013                      Email: DJREGULATORY@ANADARK

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: \_\_\_\_\_

**API NUMBER**  
05                      Permit Number: \_\_\_\_\_                      Expiration Date: \_\_\_\_\_

**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.**

\_\_\_\_\_

Data retrieval failed for the subreport 'rptPolicy\_NTC' located at: W:\mstrub\Net\Report\policy\_ntc.rdl. Please check th

### Attachment Check List

Att Doc Num	Name
400451683	FORM 2 SUBMITTED
400451698	30 DAY NOTICE LETTER
400451699	DEVIATED DRILLING PLAN
400451701	LEGAL/LEASE DESCRIPTION
400451702	OFFSET WELL EVALUATION
400451709	EXCEPTION LOC REQUEST
400451711	EXCEPTION LOC WAIVERS
400451712	OTHER
400451713	SURFACE AGRMT/SURETY
400451718	DIRECTIONAL DATA
400452027	PLAT
400453324	PROPOSED SPACING UNIT

Total Attach: 12 Files

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Proposed spacing unit won't open. Back to draft.	7/23/2013 1:57:49 PM

Total: 1 comment(s)

### BMP

<u>Type</u>	<u>Comment</u>
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.
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.

Total: 2 comment(s)