

FORM  
2

Rev  
12/05

# State of Colorado Oil and Gas Conservation Commission

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07/05/2013

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: WIRKNER-VANCE Well Number: 34N-1HZ

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

9. Proposed Total Measured Depth: 11710

## WELL LOCATION INFORMATION

10. QtrQtr: SWSW Sec: 36 Twp: 3N Rng: 67W Meridian: 6

Latitude: 40.175109 Longitude: -104.845218

Footage at Surface: 336 feet FSL 859 feet FWL

11. Field Name: Wattenberg Field Number: 90750

12. Ground Elevation: 4822 13. County: WELD

### 14. GPS Data:

Date of Measurement: 07/31/2013 PDOP Reading: 1.3 Instrument Operator's Name: Ben Hardenbergh

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

651 FNL 226 FWL 460 FSL 270 FWL

Sec: 1 Twp: 2N Rng: 67W Sec: 1 Twp: 2N 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: 250 ft

18. Distance to nearest property line: 250 ft 19. Distance to nearest well permitted/completed in the same formation(BHL): 304 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		400	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(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: 160

### 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	917	350	917	0
1ST	8+3/4	7	26.0	0	7532	800	7532	0
1ST LINER	6+1/8	4+1/2	11.6	6532	11709			

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

33. Comments No conductor will be used. Unit Configuration: 3N67W Sec 35: SESE; Sec 36: SWSW, 2N67W Sec 1: W/2W/2; Sec 2: E/2E/2 -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: 331676

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: 7/5/2013 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: 8/23/2013

**API NUMBER**  
05 123 37884 00

Permit Number: \_\_\_\_\_ Expiration Date: 8/22/2015

**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.

<b>COA Type</b>	<b>Description</b>
	1)Provide notice of MIRU via an electronic Form 42.  2)Comply with Rule 317.i and provide cement coverage a minimum of 200' above the Niobrara. Verify cement coverage with a cement bond log per Rule 317.o.

**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>
1695807	WELL LOCATION PLAT
1695808	DEVIATED DRILLING PLAN
400438480	FORM 2 SUBMITTED
400439735	30 DAY NOTICE LETTER
400439741	EXCEPTION LOC WAIVERS
400439745	EXCEPTION LOC REQUEST
400443081	OFFSET WELL EVALUATION
400443655	PROPOSED SPACING UNIT
400443657	SURFACE AGRMT/SURETY
400443658	LEGAL/LEASE DESCRIPTION
400443660	DIRECTIONAL DATA
400445018	OTHER

Total Attach: 12 Files

## General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Final Review Completed. No LGD or public comment received.	8/23/2013 9:01:36 AM
Permit	Received and attached Location Drawing, Well Loc Plat & Multi-Well Plan. Changed footage and lat/long., distance to nearest utility & property line. ON HOLD: w/o Engineering to review SHL move. ok to pass.	8/13/2013 10:14:36 AM
Permit	ON HOLD: per operator's request. Moving SHL to 211' from OHP.	7/31/2013 11:03:08 AM
Engineer	The existing surface casing check on file (Doc # 1339962) is still valid and the proposed surface casing setting depth is adequate  Evaluated offset wells for adequate coverage.	7/25/2013 10:10:35 AM
Permit	Per operator Mineral lease is correct. Changed lease description to 160 acres. ok to pass.	7/18/2013 9:28:17 AM
Permit	ON HOLD: requesting confirmation of mineral lease. description has 160 acres.	7/17/2013 2:09:14 PM
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.	7/17/2013 2:09:13 PM
Permit	Operator's request for omission of open hole logs.	7/17/2013 2:09:07 PM
Permit	Horizontal wellbore crosses lease lines within drilling and spacing unit; distance to lease line is 0'; distance to unit boundary is 460'.	7/17/2013 2:09:05 PM
Permit	Operator corrected attachment titled other. This form has passed completeness.	7/10/2013 7:30:39 AM
Permit	Returned to draft: 1) Attachment labeled "OTHER" won't open.	7/8/2013 10:34:56 AM

Total: 11 comment(s)

## Best Management Practices

<u>No</u>	<u>BMP/COA Type</u>	<u>Description</u>
1	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.
2	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.

Total: 2 comment(s)