

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:

400451825

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: 29C-29HZ

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

9. Proposed Total Measured Depth: 15489

WELL LOCATION INFORMATION

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

Latitude: 40.008552 Longitude: -104.922139

Footage at Surface: 2287 feet FNL 450 feet 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: 1964 FNL 1046 FWL Bottom Hole: 1 FNL 1055 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: 480 ft

18. Distance to nearest property line: 353 ft 19. Distance to nearest well permitted/completed in the same formation(BHL): 135 ft

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		560	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	925	330	925	0
1ST	8+3/4	7+0/0	26	0	8250	870	8250	0
1ST LINER	6+1/8	4+1/2	11.6	7245	15489			

32. BOP Equipment Type: Annular Preventer Double Ram Rotating Head None
33. Comments No conductor casing will be used./UNIT CONFIGURATION: Sec. 20: S/2SW/4; Sec. 29: W/2; Sec. 32: NW/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./Kerr-McGee Oil & Gas Onshore LP ("KMG") respectfully requests the Director to waive Rule 318A.m for this well. KMG is the operator of the encroached upon well(s).

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

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: 8/30/2013

API NUMBER: **05 123 37909 00** Permit Number: _____ Expiration Date: 8/29/2015
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.

COA Type	Description
	<p>1)Note surface casing setting depth change from 866' to 925'. Increase cement coverage accordingly and cement to surface.</p> <p>2)Provide notice of MIRU via an electronic Form 42.</p> <p>3)Comply with Rule 317.i and provide cement coverage from the 7" casing TD to a minimum of 200' above the Niobrara and from 200' below Sussex to 200' above Sussex. Verify coverage with a cement bond log.</p>

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

Att Doc Num	Name
400451825	FORM 2 SUBMITTED
400451852	VARIANCE REQUEST
400451853	30 DAY NOTICE LETTER
400451854	DEVIATED DRILLING PLAN
400451856	LEGAL/LEASE DESCRIPTION
400451858	OFFSET WELL EVALUATION
400451860	PLAT
400451994	DIRECTIONAL DATA
400451996	PROPOSED SPACING UNIT
400451997	EXCEPTION LOC REQUEST
400451998	EXCEPTION LOC WAIVERS
400451999	OTHER
400452038	SURFACE AGRMT/SURETY

Total Attach: 13 Files

General Comments

User Group	Comment	Comment Date
Permit	Final Review Completed. No LGD or public comment received.	8/22/2013 11:11:59 AM
Engineer	Evaluated offset wells for adequate coverage.	8/14/2013 8:46:56 AM
Permit	ok to pass.	8/12/2013 9:06:50 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.	8/12/2013 9:06:49 AM
Permit	Operator's request for omission of open hole logs.	8/12/2013 9:06:49 AM
Permit	Horizontal wellbore crosses lease lines within drilling and spacing unit; distance to lease line is 0'; distance to unit boundary is 460'.	8/12/2013 9:06:48 AM
Permit	Form passes completeness.	7/23/2013 1:56:53 PM

Total: 7 comment(s)

Best Management Practices

No	BMP/COA Type	Description
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	<p>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.</p> <p>At the time of permitting, the operator has identified the following well(s) as being within close proximity of the proposed well: DAVID HOWARD UNIT C 2</p>

Total: 2 comment(s)