

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:

400339508

Date Received:

10/26/2012

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: BROTEMARKLE Well Number: 29C-13HZ

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

9. Proposed Total Measured Depth: 11975

WELL LOCATION INFORMATION

10. QtrQtr: SESW Sec: 13 Twp: 3N Rng: 66W Meridian: 6

Latitude: 40.218881 Longitude: -104.727427

Footage at Surface: 319 feet FSL 2048 feet FWL

11. Field Name: WATTENBERG Field Number: 90750

12. Ground Elevation: 5034 13. County: WELD

14. GPS Data:

Date of Measurement: 04/18/2012 PDOP Reading: 1.6 Instrument Operator's Name: ROB WILSON

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 _____
635 FSL 1510 FWL 460 FNL 1510 FWL
Sec: 13 Twp: 3N Rng: 66W Sec: 13 Twp: 3N Rng: 66W

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: 269 ft

18. Distance to nearest property line: 271 ft 19. Distance to nearest well permitted/completed in the same formation(BHL): 212 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 | | 320 | 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):

Horizontal wellbore will produce from multiple leases, please see attached Lease Description.

25. Distance to Nearest Mineral Lease Line: 460 ft 26. Total Acres in Lease: 5719

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 | 937 | 700 | 937 | 0 |
| 1ST | 8+3/4 | 7 | 26.0 | 0 | 7,811 | 760 | 7,811 | 0 |
| 1ST LINER | 6+1/8 | 4+1/2 | 11.6 | 6786 | 11,975 | | | |

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

33. Comments No conductor casing will be used. Unit Configuration CODL: W/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: 327093

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: 10/26/2012 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: 12/11/2012

API NUMBER **05 123 36393 00** Permit Number: _____ Expiration Date: 12/10/2014

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.

- 1) Provide notice of MIRU via an electronic Form 42.
 2) 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.

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 |
|-------------|-------------------------|
| 2481914 | SURFACE CASING CHECK |
| 400339508 | FORM 2 SUBMITTED |
| 400339515 | DEVIATED DRILLING PLAN |
| 400339516 | PLAT |
| 400339517 | TOPO MAP |
| 400339519 | 30 DAY NOTICE LETTER |
| 400339520 | SURFACE AGRMT/SURETY |
| 400339521 | LEGAL/LEASE DESCRIPTION |
| 400339522 | EXCEPTION LOC REQUEST |
| 400339523 | EXCEPTION LOC WAIVERS |
| 400339524 | PROPOSED SPACING UNIT |
| 400339525 | OTHER |
| 400342983 | DIRECTIONAL DATA |

Total Attach: 13 Files

General Comments

| <u>User Group</u> | <u>Comment</u> | <u>Comment Date</u> |
|--------------------------|--|----------------------------|
| Permit | Amended location per opla. Added location ID. Final Review Completed. No LGD or public comment received. | 12/10/2012 3:05:55 PM |
| Engineer | Evaluated offset wells for adequate cement coverage. | 11/13/2012 11:43:43 AM |
| Permit | ok to pass. | 11/5/2012 10:42:52 AM |
| Permit | Operator's request for omission of open hole logs. | 11/5/2012 10:42:51 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. | 11/5/2012 10:42:50 AM |
| Permit | Operator attached corrected directional survey & template. This document has passed completeness. | 11/5/2012 10:09:44 AM |
| Permit | Return to draft: Operator did not address these issues: 1. directional drilling data excel spreadsheet well location (SWSE) does not match well location plat (SESW), 2. directional drilling template/import well location does not match well location plat. | 11/2/2012 10:23:29 AM |
| Permit | Return to draft: 1. directional drilling data excel spreadsheet well location (SWSE) does not match well location plat (SESW), 2. directional drilling template/import well location does not match well location plat. | 10/30/2012 10:12:40 AM |

Total: 8 comment(s)

BMP

| <u>Type</u> | <u>Comment</u> |
|--------------------------------|---|
| 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." |
| 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)