

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80205 Phone: (303) 894-2100 Fax: (303) 894-2109



DE	ET	OE	ES
----	----	----	----

Document Number:

400191854

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: REBECCA HEIM Phone: (720)929-6361 Fax: (720)929-7361

Email: rebecca.heim@anadarko.com

7. Well Name: CANNON Well Number: 2C-11HZ

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

9. Proposed Total Measured Depth: 12240

WELL LOCATION INFORMATION

10. QtrQtr: SESE Sec: 11 Twp: 2N Rng: 66W Meridian: 6

Latitude: 40.147035

Longitude: -104.736804

			FNL/FSL		FEL/FWL
Footage at Surface:	518	feet	FSL	548	feet
					FEL

11. Field Name: WATTENBERG Field Number: 90750

12. Ground Elevation: 5057 13. County: WELD

- #### 14. GPS Data:

Date of Measurement: 06/29/2011 PDOP Reading: 2.2 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	FEL/FWL	Bottom Hole:				FNL/FSL	FEL/FWL				
<u>1132</u>		<u>FSL</u>		<u>1324</u>		<u>FEL</u>		<u>460</u>		<u>FNL</u>		<u>1820</u>		<u>FEL</u>	
Sec:	11	Twp:	2N	Rng:	66W	Sec:	11	Twp:	2N	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: 486 ft

18. Distance to nearest property line: 518 ft 19. Distance to nearest well permitted/completed in the same formation: 256 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	E/2

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 OIL AND GAS LEASE

25. Distance to Nearest Mineral Lease Line: 460 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	12+1/4	9+5/8	36	0	900	450	900	
1ST	8+3/4	7+0/0	26	0	8,040	760	8,040	
1ST LINER	6+1/8	4+1/2	11.6	6934	12,240			

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

33. Comments No conductor casing will be used.

34. Location ID: 332128

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: REBECCA HEIM

Title: REGULATORY ANALYST II

Date: 8/3/2011

Email: DJREGULATORY@

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: _____

David S. Neslin

Director of COGCC

Date: 8/31/2011

API NUMBER

05 123 34285 00

Permit Number: _____ Expiration Date: 8/30/2013

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 24 hour notice of MIRU to Jim Precup at 303-469-1902 or e-mail at james.precup@state.co.us
- 2) Comply with Rule 317.i and provide cement coverage from end of 7" casing to a minimum of 200' above Niobrara. 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.

Attachment Check List

Att Doc Num	Name
400191854	FORM 2 SUBMITTED
400191856	TOPO MAP
400191857	30 DAY NOTICE LETTER
400191858	DEVIATED DRILLING PLAN
400191859	PLAT
400191860	PROPOSED SPACING UNIT
400191861	OIL & GAS LEASE

Total Attach: 7 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Added location ID.	8/8/2011 11:11:42 AM

Total: 1 comment(s)

BMP

<u>Type</u>	<u>Comment</u>
Drilling/Completion Operations	Cannon 2C-11HZ - During the fracing of this Cannon horizontal well, Kerr-McGee will monitor the casing pressure of the existing UPRR 38 PAN AM F1 and Cannon Land 2-11 wells for a period of 24-hours and report this casing pressure to the COGCC staff via a sundry.

Total: 1 comment(s)