

FORM

2

Rev
12/05

State of Colorado

Oil and Gas Conservation Commission

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



Document Number:

2287988

Date Received:

03/19/2012

PluggingBond SuretyID

20050131

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: MID-CON ENERGY OPERATING INC

4. COGCC Operator Number: 10142

5. Address: 2431 E 61ST ST STE 850

City: TULSA State: OK Zip: 74136

6. Contact Name: RYAN M. LOGSDON Phone: (918)743-2360 Fax: (918)743-8859

Email: RLOGSDON@MIDCON-ENERGY.COM

7. Well Name: HRMU Well Number: 10-13

8. Unit Name (if appl): HRMU Unit Number: 10-13

9. Proposed Total Measured Depth: 5400

WELL LOCATION INFORMATION

10. QtrQtr: NW/4 Sec: 13 Twp: 13S Rng: 43W Meridian: 6

Latitude: 38.926110 Longitude: -102.176380

Footage at Surface: 1320 feet FNL/FSL 2310 feet FEL/FWL
 FNL FWL

11. Field Name: HARKER RANCH Field Number: 33557

12. Ground Elevation: 4065.46 13. County: CHEYENNE

14. GPS Data:

Date of Measurement: 02/29/2012 PDOP Reading: 2.7 Instrument Operator's Name: KEITH WESTFALL

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

Sec: Twp: Rng: Sec: Twp: Rng:

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: 2310 ft

18. Distance to nearest property line: 1320 ft 19. Distance to nearest well permitted/completed in the same formation(BHL): 1620 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.)
MORROW	MRRW	477-4	1295	S2 1, 12, N2 13

21. Mineral Ownership: ☒ Fee ☐ State ☐ Federal ☐ Indian Lease #: _____22. Surface Ownership: ☒ Fee ☐ State ☐ Federal ☐ Indian23. 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 ☐ No23b. 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):

THE NW/4 OF SECTION 13-13S-43W, WHICH IS WITHIN THE UNIT BOUNDARY.

25. Distance to Nearest Mineral Lease Line: 1300 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: EVAPORATION AND

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
CONDUCTOR		20		0	50		50	0
SURF	12+1/4	8+5/8	24	0	400	250	400	0
1ST	7+7/8	5+1/2	15.5	0	5,400	400	5,400	2,500
S.C. 1.1							2,500	1,750

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

33. Comments ORIGINAL LEASE (NW/4 SEC 13) IS NOW PART OF THE HARKER RANCH MORROW UNIT WATERFLOOD PROJECT.

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: RYAN M. LOGSDON

Title: OPERATIONS ENGINEER Date: 3/15/2012 Email: RLOGSDON@MIDCON-

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:  Director of COGCC Date: 4/19/2012

API NUMBER

05 017 07716 00

Permit Number: _____ Expiration Date: 4/18/2014

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 48 hour notice prior to spud via Form 42.
- 2) Set at least 400' of surface casing due to WW depths. Cement to surface.
- 3) If production casing is set provide cement coverage to at least 200' above the shallowest completed interval and across Cheyenne/Dakota (2500'-1750' minimum, stage or primary). Run and submit CBL to verify cemented intervals.
- 4) If well is a dry hole set plugs at the following depths: 40 sks cement +/- 50' above the MRRW, 40 sks cement across any DST w/ show, 40 sks cement at 2500' up, 40 sks cement at 1750' up, 50 sks cement from 50' below surface casing shoe up into surface casing, 15 sks cement in top of surface casing, cut 4 ft below GL, weld on plate, 5 sks cement each in rat hole and mouse hole.

Attachment Check List

Att Doc Num	Name
2287982	WELL LOCATION PLAT
2287983	TOPO MAP
2287984	MINERAL LEASE MAP
2287985	SURFACE AGRMT/SURETY
2287986	30 DAY NOTICE LETTER
2287987	OIL & GAS LEASE
2287988	FORM 2 SUBMITTED
2331960	SURFACE CASING CHECK

Total Attach: 8 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Distance to the nearest permitted well was corrected per opr. Final review passed. 4/19/2012 NKP	4/19/2012 1:29:49 PM
Permit	Email to opr to verify distance to nearest permitted production. 4/19/2012 NKP	4/19/2012 11:26:52 AM
Permit	Unit acreage, distance to the nearest lease line, lease description and size corrected per opr 4/19/2012.	4/19/2012 10:57:56 AM
Permit	Email to opr to verify distance to nearest lease line, lease acreage, unit acreage, comments. 4/12/2012 NKP	4/12/2012 8:06:30 AM
Data Entry	CHECK UNIT NAME; CHECK TOTAL ACRES IN LEASE.	3/20/2012 12:13:49 PM

Total: 5 comment(s)

BMP

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

Total: 0 comment(s)