

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



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

APPLICATION FOR PERMIT TO:

1. ☒ Drill, ☐ Deepen, ☐ Re-enter, ☐ Recomplete and Operate

2. TYPE OF WELL

OIL ☒ GAS ☐ COALBED ☐ OTHER _____
SINGLE ZONE ☒ MULTIPLE ZONE ☐ COMMINGLE ZONE ☐

Refiling ☐
Sidetrack ☐

Document Number:

2585220

Plugging Bond Surety

20000063

3. Name of Operator: MULL DRILLING COMPANY INC

4. COGCC Operator Number: 61250

5. Address: 1700 N WATERFRONT PKWY B#1200

City: WICHITA State: KS Zip: 67206-6637

6. Contact Name: MARK SHREVE Phone: (316)264-6366 Fax: (316)264-6440
Email: MSHREVE@MULLDRILLING.COM

7. Well Name: THOR UNIT Well Number: 1-27

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

9. Proposed Total Measured Depth: 5000

WELL LOCATION INFORMATION

10. QtrQtr: NENW Sec: 27 Twp: 18S Rng: 45W Meridian: 6

Latitude: 38.469010 Longitude: -102.446760

Footage at Surface: 139 FNL/FSL FNL 2438 FEL/FWL FWL

11. Field Name: WILDCAT Field Number: 99999

12. Ground Elevation: 3913.31 13. County: KIOWA

14. GPS Data:

Date of Measurement: 09/17/2009 PDOP Reading: 1.8 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: 2438 ft

18. Distance to nearest property line: 139 ft 19. Distance to nearest well permitted/completed in the same formation: 5262 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.) |
|------------------------|----------------|-------------------------|-------------------------------|--------------------------------------|
| MISSISSIPPIAN | MSSP | 213-10 | 80 | E/2NW |

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 Bon ☐ \$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):
SE/4 & E/2 W/2 SECTION 22-18S-45W AND N/2 & N/2 SW/4 SECTION 27-18S-45W.

25. Distance to Nearest Mineral Lease Line: 1127 ft 26. Total Acres in Lease: 720

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 27 or 28 are yes, is this location in a sensitive area (Rule 903)? ☐ Yes ☐ No If 28, 29, or 30 are "Yes" a pit permit may be required.

31. Mud disposal: ☐ Offsite ☒ Onsite

Method: ☐ Land Farming ☐ Land Spreading ☐ Disposal Facility Other: DRY/BURYING

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 | Weight Per Foot | Setting Depth | Sacks Cement | Cement Bottom | Cement Top |
|-------------|--------------|----------------|-----------------|---------------|--------------|---------------|------------|
| SURF | 12+1/4 | 8+5/8 | 24 | 300 | 200 | 300 | 0 |
| 1ST | 7+7/8 | 5+1/2 | 15.5 | 5,000 | 250 | 5,000 | 3,500 |
| | | | Stage Tool | 2,300 | 300 | 2,300 | 0 |

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

33. Comments NO CONDUCTOR CASING WILL BE USED

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: MARK SHREVE

Title: PRESIDENT Date: 12/22/2009 Email: MSHREVE@MULLDRILLING.

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: 2/10/2010

API NUMBER

05 061 06841 00

Permit Number: _____ Expiration Date: 2/9/2012

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 Mike Leonard at 719-767-2805 or e-mail at mike.leonard@ state.co.us. 2) If production casing is set provide cement coverage to at least 200' above the Morrow, and stage cement Cheyenne & Dakota zones (1330'-750' minimum). Run CBL to verify primary and Cheyenne/Dakota stage cement. 3) If well is a dry hole set plugs at the following depths: 40 sks cement +/- 50' above the Morrow top, 40 sks cement above any DST w/ show, 40 sks cement 100' below base of Cheyenne (1330' up), 40 sks at top of Cheyenne (1100' up), 40 sks cement 50' above top of Dakota (750' up), 50 sks cement from 50' below surface casing shoe up into surface casing, 10 sks cement in top of surface csg, cut 4 ft below GL, weld on plate, 5 sks cement in rat hole and mouse hole.

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Attachment Check List

| Att Doc Num | Name | Doc Description |
|-------------|-------------------------|----------------------|
| 1828747 | LEASE MAP | LF@2221742 1828747 |
| 1828753 | LEGAL/LEASE DESCRIPTION | LF@2280594 1828753 |
| 2098847 | SURFACE CASING CHECK | LF@2215405 2098847 |
| 2585222 | WELL LOCATION PLAT | LF@2201738 2585222 |
| 2585224 | PROPOSED SPACING UNIT | LF@2201741 2585224 |
| 2585225 | SURFACE AGRMT/SURETY | LF@2201740 2585225 |
| 2585226 | 30 DAY NOTICE LETTER | LF@2201739 2585226 |
| 2585227 | EXCEPTION LOC REQUEST | LF@2201742 2585227 |
| 2585228 | EXCEPTION LOC WAIVERS | LF@2201743 2585228 |
| 2585229 | LOCATION PICTURES | LF@2201971 2585229 |
| 2585230 | LOCATION PICTURES | LF@2201972 2585230 |
| 2585231 | LOCATION PICTURES | LF@2201973 2585231 |
| 2585232 | LOCATION PICTURES | LF@2201974 2585232 |
| 400024173 | FORM 2 SUBMITTED | LF@2207324 400024173 |
| 400037841 | APD ORIGINAL | LF@2201737 400037841 |

Total Attach: 15 Files