

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

Document Number:
400229972

PluggingBond SuretyID
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: ETW Well Number: 1-15

8. Unit Name (if appl): N/A Unit Number: N/A

9. Proposed Total Measured Depth: 5000

WELL LOCATION INFORMATION

10. QtrQtr: SWSW Sec: 15 Twp: 18S Rng: 45W Meridian: 6
Latitude: 38.487190 Longitude: -102.453330

Footage at Surface: 1218 feet FSL 601 feet FWL

11. Field Name: WILDCAT Field Number: 99999

12. Ground Elevation: 3917 13. County: KIOWA

14. GPS Data:
Date of Measurement: 11/30/2011 PDOP Reading: 3.3 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: 601 ft

18. Distance to nearest property line: 601 ft 19. Distance to nearest well permitted/completed in the same formation(BHL): 4547 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.)
MARMATON	MRTN			
MISSISSIPPIAN	MSSP			
MORROW	MRRW			

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):

SW/4 Section 15-T17S-R45W, 6th P.M.

25. Distance to Nearest Mineral Lease Line: 601 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: DRY AND BURY

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	8+5/8	24	0	300	200	300	0
1ST	7+7/8	5+1/2	15.5	0	5,000	250	5,000	3,500
			Stage Tool	0	2,300	300	2,300	0

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

33. Comments NO CONDUCTOR OR INTERMEDIATE CASING WILL BE SET.

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/COO Date: 12/8/2011 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: 1/15/2012

API NUMBER

05 061 06868 00

Permit Number: _____ Expiration Date: 1/14/2014

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.

Due to the potential presence of hydrogen sulfide in the oil and gas fields surrounding the proposed location, the operator is reminded to monitor H2S in accordance to Rule 607.

- 1) Provide 24 hour notice of MIRU to Craig Quint at 719-767-8939 or e-mail at craig.quint@state.co.us.
- 2) If production casing is set cement from TD to 200' above shallowest completed interval and stage cement Cheyenne & Dakota interval (1350' – 750' minimum). Verify with CBL.
- 3) If well is a dry hole set the following plugs: 40 sks cement 50' above the Mississippian, 40 sks cement 50' above the Lansing, 40 sks cement across any DST w/ show, 40 sks cement 50' below base of Cheyenne (1350' up), 40 sks cement 50' above top of the Dakota (750' up), 50 sks cement from 50' below surface casing shoe up into surface casing, 15 sks cement in top of surface csg, cut 4 feet below GL, weld on plate, 5 sks cement in rat hole and mouse hole.

Attachment Check List

Att Doc Num	Name
2330687	SURFACE CASING CHECK
400229972	APD APPROVED
400230622	WELL LOCATION PLAT
400230623	TOPO MAP
400230624	30 DAY NOTICE LETTER
400230625	30 DAY NOTICE LETTER
400241067	FORM 2 SUBMITTED

Total Attach: 7 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Final review passed 1/10/2012 NKP	1/10/2012 2:04:01 PM
Permit	On hold pending COGCC staff discussion of H2S issues. 12/30/2011 NKP	12/30/2011 10:37:57 AM
Permit	Per T. Tritt, approve to change distance to nearest permitted well in same zone (Mull CJ Farms 1-15) to 4,547. 12/30/2011 NKP	12/30/2011 8:33:22 AM

Total: 3 comment(s)

BMP

<u>Type</u>	<u>Comment</u>
Material Handling and Spill Prevention	DURING DRILLING/COMPLETION OPERATIONS, STORAGE AREAS GRADED TOWARDS PIT. DURING PRODUCTION OPERATIONS, IMPLEMENTATION OF SPILL PREVENTION, CONTROL AND COUNTERMEASURE PLAN & DAILY INSPECTION. ALL STOCK AND PRODUCED WATER TANKS HAVE SECONDARY CONTAINMENT.
Site Specific	REPORTING OF THE PRESENCE OF H2S WILL BE DONE VIA VERBAL AND E-MAIL NOTICES. VERBAL NOTICE WITH A FLOW UP E-MAIL WILL BE PROVIDED AS SOON AS PRACTICABLE UPON DETECTION OF H2S TO COGCC'S AREA ENGINEER AND THE LOCAL GOVERNMENT DESIGNEE.
Final Reclamation	ALL EQUIPMENT AND DEBRIS REMOVED. ALL REMAINING DISTURBED AREAS, INCLUDING ACCESS ROADS, RECLAIMED. NOXIOUS WEED CONTROL PLAN DEVELOPED, IF APPROPRIATE.
Drilling/Completion Operations	INCLUDES STRUCTURAL PRACTICES: IMPLEMENT STORM WATER POLLUTION PREVENTION PLAN, INCLUDING ROUTINE INSPECTIONS AND EVALUATION OF EFFECTIVENESS. LOCATE TANK BATTERIES AT SAFE DISTANCE FROM PUBLIC ROADWAYS AND RAILHEAD. FULL CONTAINMENT FOR STOCK TANKS AND SEPARATORS. INSTALLATION OF PIPELINES IN COMMON TRENCHES WHEN PRACTICAL. INSTALLATION OF PIPELINES AT RIGHT ANGLES TO WATER BODIES (DRAINAGES, WETLANDS, PERENNIAL WATER BODIES) WHERE PRACTICAL.

General Housekeeping	DRILLING AND PRODUCTION OPERATIONS CONDUCTED IN SAFE, WORKMANLIKE MANNER. SAFETY EXPECTATIONS INCLUDE GOOD HOUSEKEEPING. DURING DRILLING/COMPLETION OPERATIONS, DEBRIS STORED IN CAGED CONTAINER WHICH IS REMOVED FROM THE SITE. DURING PRODUCTION OPERATIONS, THE LEASE IS INSPECTED DAILY BY MDC PERSONNEL.
Pre-Construction	PREPARATION OF A STORM WATER POLLUTION PREVENTION PLAN. ACQUISITION OF A STORM WATER DISCHARGE PERMIT. CONSULTATION WITH THE SURFACE LANDOWNER OR APPOINTED AGENT. FINALIZE ACCESS ROUTES. FINALIZE WELL PAD LOCATION TO MINIMIZE SURFACE GRADE IMPACTS. FINALIZE WELL PAD LAYOUT TO MINIMIZE DISTURBANCES. DEVELOP WILDLIFE MANAGEMENT PLAN IF PROTECTED SPECIES ARE PRESENT.
Wildlife	DEVELOPMENT AND IMPLEMENTATION OF A WILDLIFE MANAGEMENT PLAN, IF PTECTED SPECIES ARE PRESENT.
Storm Water/Erosion Control	DURING DRILLING/COMPLETION OPERATIONS, IMPLEMENTATION OF STORM WATER POLLUTION PREVENTION PLAN. FOLLOWING DRILLING/COMPLETION OPERATIONS, PROMPT RECLAMATION OF DISTURBED AREAS. DURING PRODUCTION OPERATIONS, IMPLEMENTATION OF MDC'S POST CONSTRUCTION STORM WATER MANAGEMENT PROGRAM.
Construction	ACCESS ROAD, WELL PAD AND PIT DISTURBANCES MINIMIZED. SOILS SEGREGATED BY TYPE TO FACILITATE RECLAMATION. STORM WATER CONTROLS DEPLOYED AND ROUTINELY INSPECTED.
Interim Reclamation	DEBRIS AND WASTE MATERIAL REMOVED. AREAS NOT IN USE RECLAIMED PROMPTLY; PITS CLOSED USING SEGREGATED MATERIAL; WELL PAD AND OTHER COMPACTED SURFACES RIPPED. NOXIOUS WEEDS CONTROLLED.
Planning	CONDUCT INITIAL SITE ASSESSMENT IDENTIFICATION OF NEARBY WATER BODIES IDENTIFICATION OF VEGETATION TYPES IDENTIFICATION OF PROTECTED WILDLIFE SPECIES IDENTIFICATION OF POTENTIAL ACCESS ROUTES TO MINIMIZE DISTURBANCES IDENTIFICATION OF NEARBY IMPROVEMENTS

Total: 11 comment(s)