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|---|---|---|---|----|----|----|----|
| 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 |  | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:25%;">DE</td> <td style="width:25%;">ET</td> <td style="width:25%;">OE</td> <td style="width:25%;">ES</td> </tr> </table> | DE | ET | OE | ES |
| DE | ET | OE | ES | | | | |

APPLICATION FOR PERMIT TO:

1. **Drill,** Deepen, Re-enter, Recomplete and Operate

2. TYPE OF WELL

OIL GAS COALBED OTHER LATERAL

SINGLE ZONE MULTIPLE ZONE COMMINGLE ZONE

Refiling
 Sidetrack

Document Number:
 400175480

Plugging Bond Surety
 20100108

3. Name of Operator: CARRIZO OIL & GAS INC 4. COGCC Operator Number: 10338

5. Address: 1000 LOUISIANA STREET #1500
 City: HOUSTON State: TX Zip: 77002

6. Contact Name: Terry Hoffman Phone: (720)542-8287 Fax: (720)542-9213
 Email: terry@rockymountainpermitting.com

7. Well Name: Ptasnik Well Number: 33-11-9-59

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

9. Proposed Total Measured Depth: 10689

WELL LOCATION INFORMATION

10. QtrQtr: NWNW Sec: 33 Twp: 9N Rng: 59W Meridian: 6
 Latitude: 40.713375 Longitude: -103.991514

Footage at Surface: 245 feet FNL 245 feet FWL

11. Field Name: Wildcat Field Number: 99999

12. Ground Elevation: 4855 13. County: WELD

14. GPS Data:
 Date of Measurement: 05/27/2011 PDOP Reading: 2.1 Instrument Operator's Name: L.S.

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

650 FNL 650 FWL 650 FSL 1987 FWL

Sec: 33 Twp: 9N Rng: 59W Sec: 33 Twp: 9N Rng: 59W

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: 278 ft

18. Distance to nearest property line: 245 ft 19. Distance to nearest well permitted/completed in the same formation: 1539 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.) |
|------------------------|----------------|-------------------------|-------------------------------|--------------------------------------|
| Niobrara | NBRR | 535-3 | 640 | All |

IMPORTANT: SOME DATA FIELDS HAVE BEEN MODIFIED.

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#: 20100170
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 full lease description, to large to type.
25. Distance to Nearest Mineral Lease Line: 650 ft 26. Total Acres in Lease: 6630

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: Landfarm Burial or Evaporati
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 | 1,400 | 534 | 1,400 | 0 |
| 1ST | 8+3/4 | 7 | 23 | 0 | 6,412 | 605 | 6,412 | 1,400 |
| 2ND | 6+1/8 | 4+1/2 | 11.6 | 0 | 10,689 | 370 | 10,689 | 5,412 |

32. BOP Equipment Type: Annular Preventer Double Ram Rotating Head None
33. Comments No conductor casing will be set. All footages 5280' are 1 mile or greater.

34. Location ID: 424217
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: Terry L. Hoffman
Title: Permit Agent Date: 6/16/2011 Email: terry@rockymountainpermitting.

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. Noshin Director of COGCC Date: 7/14/2011

API NUMBER
05 123 33945 01

Permit Number: _____ Expiration Date: 7/13/2013

CONDITIONS OF APPROVAL, IF ANY:

IMPORTANT: SOME DATA FIELDS HAVE BEEN MODIFIED.

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 Colby Horton at 970-467-2517 or e-mail at colby.horton@state.co.us.
- 2) Provide cement coverage from base of intermediate casing to a minimum of 200' above Niobrara. Verify coverage with cement bond log.
- 3) 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.

PROPOSED HORIZONTAL WELL BORE IS TO BE DRILLED INTO FEDERAL MINERALS. OPERATOR DISCUSSION WITH BLM REQUIRED: UNLEASED FEDERAL MINERALS CANNOT BE DRILLED UPON/PRODUCED REGARDLESS OF SPACING ORDER: REQUIRED SETBACKS TO BE MAINTAINED---INTERAGENCY DISCUSSION PURSUANT TO MOU COGCC, BLM, USFS 6-24-09 H.2.d. A FEDERAL DRILLING PERMIT IS REQUIRED

Attachment Check List

| Att Doc Num | Name |
|-------------|-------------------------|
| 400175480 | FORM 2 SUBMITTED |
| 400175529 | PLAT |
| 400176164 | LEGAL/LEASE DESCRIPTION |
| 400176229 | DEVIATED DRILLING PLAN |

Total Attach: 4 Files

General Comments

| <u>User Group</u> | <u>Comment</u> | <u>Comment Date</u> |
|--------------------------|--|----------------------------|
| Permit | This section was previously spaced. | 6/17/2011 1:13:26 PM |
| Permit | BLM notified. | 6/17/2011 1:12:56 PM |
| Permit | This is a pilot/lateral drilling plan. The permits will be on hold pending the completion of the 20 day public comment period at which time they will be approved together to maintain proper API number designations. | 6/17/2011 1:04:09 PM |

Total: 3 comment(s)

BMP

| <u>Type</u> | <u>Comment</u> |
|--------------------|---|
| Construction | Operator will ensure 110 percent secondary containment for any volume of fluids contained at the well site during drilling and completion. Operator will implement best management practices to contain any unintentional release of fluids. Operator has designed the well pad with insloping and a storm water control ditch to prevent storm water run-on/runoff and the release of fluids from the location. See attached Construction Layout Drawing. Fresh water for the Fresh Water Storage Pit comes from water provider; water sources permitted for consumable industrial use. Operator shall not allow any fluids to flow back to the Fresh Water Storage Pit. Fresh Water Storage Pit shall contain fresh water only and signage prohibiting the use of the pit for any fluid that does not come from municipal, irrigation or surface water source. The location will be fenced and the fenced area will include the Fresh Water Storage Pit. The COGCC to be notified 48 hours prior to construction of the Fresh Water Storage Pit. |

Total: 1 comment(s)