


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:			Document Number: 400136524 Plugging Bond Surety 20100108				
1. <input checked="" type="checkbox"/> Drill, <input type="checkbox"/> Deepen, <input type="checkbox"/> Re-enter, <input type="checkbox"/> Recomplete and Operate							
2. TYPE OF WELL OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> COALBED <input type="checkbox"/> OTHER <u>LATERAL</u> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/> COMMINGLE ZONE <input type="checkbox"/>			Refiling <input type="checkbox"/> Sidetrack <input checked="" type="checkbox"/>				
3. Name of Operator: <u>CARRIZO OIL & GAS INC</u>		4. COGCC Operator Number: <u>10338</u>					
5. Address: <u>1000 LOUISIANA STREET #1500</u> City: <u>HOUSTON</u> State: <u>TX</u> Zip: <u>77002</u>							
6. Contact Name: <u>Venessa Langmacher</u> Phone: <u>(303)8579999</u> Fax: <u>(303)4509200</u> Email: <u>vllpermitco@aol.com</u>							
7. Well Name: <u>Nelson</u>		Well Number: <u>17-44-9-60</u>					
8. Unit Name (if appl): _____		Unit Number: _____					
9. Proposed Total Measured Depth: <u>12363</u>							
WELL LOCATION INFORMATION							
10. QtrQtr: <u>SESE</u> Sec: <u>17</u> Twp: <u>9N</u> Rng: <u>60W</u> Meridian: <u>6</u> Latitude: <u>40.744110</u> Longitude: <u>-104.109610</u>							
Footage at Surface: <u>279</u> feet FNL/FSL <u>FSL</u> 248 feet FEL/FWL <u>FEL</u>							
11. Field Name: <u>Wildcat</u>		Field Number: <u>99999</u>					
12. Ground Elevation: <u>5008</u>		13. County: <u>WELD</u>					
14. GPS Data: Date of Measurement: <u>02/16/2011</u> PDOP Reading: <u>2.1</u> Instrument Operator's Name: <u>David Murrey</u>							
15. If well is <input type="checkbox"/> Directional <input checked="" type="checkbox"/> Horizontal (highly deviated) submit deviated drilling plan. Footage at Top of Prod Zone: FNL/FSL <u>681</u> FEL/FWL <u>FSL</u> 659 FEL <u>650</u> FNL <u>650</u> FWL <u>FWL</u> Sec: <u>17</u> Twp: <u>9N</u> Rng: <u>60W</u> Sec: <u>17</u> Twp: <u>9N</u> Rng: <u>60W</u>							
16. Is location in a high density area? (Rule 603b)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No							
17. Distance to the nearest building, public road, above ground utility or railroad: <u>279 ft</u>							
18. Distance to nearest property line: <u>279 ft</u> 19. Distance to nearest well permitted/completed in the same formation: <u>4500 ft</u>							
20. LEASE, SPACING AND POOLING INFORMATION							
Objective Formation(s)	Formation Code	Spacing Order Number(s)	Unit Acreage Assigned to Well				
Niobrara	NBRR						
Unit Configuration (N/2, SE/4, etc.)							

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#: _____

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):
T9N - R60W: Section 17: ALL, Section 5: SE SE, Section 8: E/2 NE, SE, Section 20: NW

25. Distance to Nearest Mineral Lease Line: 240 ft 26. Total Acres in Lease: 1080

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/Evaporation

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	17+1/2	14	36.7	0	40		40	0
SURF	12+1/4	9+5/8	36	0	1,400	534	1,400	0
1ST	8+3/4	7	23	1400	6,412	644	6,412	1,400
2ND	6+1/8	4+1/2	11.6	5739	12,363	464	12,363	5,739

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

33. Comments This application is for a horizontal lateral sidetrack.

34. Location ID: 422744

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: Venessa Langmacher

Title: Regulatory Supervisor Date: 2/25/2011 Email: vllpermitco@aol.com

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. Nesline Director of COGCC Date: 4/19/2011

API NUMBER

05 123 33368 01

Permit Number: _____ Expiration Date: 4/18/2013

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 hr notice of MIRU to Bo Brown at 970-330-6085 or email at bo.brown@state.co.us.
- 2) Set surface casing per Rule 317d, cement to surface. Setting surface casing less than the approved depth is a permit violation unless prior written approval is obtained from the COGCC.
- 3) If completed, provide cement coverage from the intermediate casing shoe to a minimum of 200' above Niobrara. Verify cement with a cement bond log.
- 4) 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
1726401	SURFACE CASING CHECK
2530470	WELL LOCATION PLAT
2530472	DEVIATED DRILLING PLAN
2530473	SURFACE PLAN
400136524	APD APPROVED
400156106	FORM 2 SUBMITTED

Total Attach: 6 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	New attachments uploaded	4/19/2011 7:19:30 AM
Permit	On hold-Operator is changing the surface location. New attachments must be uploaded.	4/19/2011 6:43:43 AM
Permit	On hold waiting for 20 day period to expire.	3/17/2011 4:02:29 PM
Permit	The lease is a single lease covering the lands.	3/4/2011 1:19:12 PM
Permit	This is the lateral portion of a pilot/lateral drilling plan.	3/4/2011 12:33:36 PM

Total: 5 comment(s)

BMP

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

Total: 0 comment(s)