


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: 400144599 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>LISA SMITH</u> Phone: <u>(303)8579999</u> Fax: <u>(303)4509200</u> Email: <u>lspermitco@aol.com</u>							
7. Well Name: <u>Wickstrom</u>		Well Number: <u>5-44-5-60</u>					
8. Unit Name (if appl): _____		Unit Number: _____					
9. Proposed Total Measured Depth: <u>11531</u>							
WELL LOCATION INFORMATION							
10. QtrQtr: <u>SE SE</u> Sec: <u>5</u> Twp: <u>5N</u> Rng: <u>60W</u> Meridian: <u>6</u> Latitude: <u>40.423350</u> Longitude: <u>-104.109150</u>							
Footage at Surface: <u>275</u> feet FNL/FSL <u>FSL</u> <u>256</u> feet FEL/FWL <u>FEL</u>							
11. Field Name: <u>Wildcat</u>		Field Number: <u>99999</u>					
12. Ground Elevation: <u>4543</u>		13. County: <u>MORGAN</u>					
14. GPS Data: Date of Measurement: <u>02/14/2011</u> PDOP Reading: <u>2.3</u> Instrument Operator's Name: <u>George Allen</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>687</u> FSL <u>868</u> FEL <u>650</u> FEL/FWL <u>1658</u> FWL _____ Bottom Hole: FNL/FSL _____ FNL <u>650</u> FSL <u>868</u> FEL <u>650</u> FEL/FWL <u>1658</u> FWL _____ Sec: <u>5</u> Twp: <u>5N</u> Rng: <u>60W</u> Sec: <u>5</u> Twp: <u>5N</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>240 ft</u>							
18. Distance to nearest property line: <u>256 ft</u> 19. Distance to nearest well permitted/completed in the same formation: <u>5280 ft</u>							
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.)			
Niobrara	NBRR	535-13	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#: _____

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):
T5N - R60W: Section 5: E/2, SW

25. Distance to Nearest Mineral Lease Line: _____ 0 ft 26. Total Acres in Lease: _____ 2960

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: Burial and 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
SURF	12+1/4	9+5/8	36	0	1,400	298	1,400	0
1ST	8+3/4	7	23	1400	6,290	591	6,290	1,400
1ST LINER	6+1/8	4+1/2	11.6	5097	11,531	449	11,531	5,097

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

33. Comments No conductor casing will be set. This application is for a lateral sidetrack. The pilot well will be plugged back after reaching TD with 736 sx of cement, top of cement will be 4997'.

34. Location ID: 423033

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: LISA SMITH

Title: Regulatory Supervisor Date: 3/21/2011 Email: lspermitco@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. Neslin Director of COGCC Date: 5/24/2011

API NUMBER

05 087 08161 01

Permit Number: _____ Expiration Date: 5/23/2013

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) If hole is abandoned with production liner, then set 40 sks cement in casing at the intermediate casing shoe, cut off casing above top of cement.
- 5) If dry hole without production liner, then set 40 sks cement in open hole 50' above Niobrara top.
- 6) With either 4 or 5 above, set 50 sks cement ½ out, ½ in surface casing, 10 sks cement top of surface casing, cut 4' below ground level, weld on plate, 5 sks cement in rat hole & 5 sks cement in mouse hole.
- 7) 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
2111388	SURFACE CASING CHECK
400144599	FORM 2 SUBMITTED
400144759	PLAT
400144761	DEVIATED DRILLING PLAN

Total Attach: 4 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Approved spacing order is 535-13. the 2A and pilot were approved prior to the spacing order beeing approved by special request..	5/23/2011 11:46:44 AM
Permit	--ON HOLD--Lands are unspaced, fall under lease distance 318a--APD cannot be approved at this time. Wellbore encroaches 600' or less to lease line. Lease distance set to 0. Side plot is missing data, needs to reflect the pilot hole as proposed. Spacing application submitted for May Hearing---Reviewed	3/23/2011 9:29:44 AM
Permit	This is the lateral portion of a pilot/lateral drilling program	3/23/2011 7:34:56 AM
Permit	corrected answer to question 22a with opr-Venessa's approval. sf	3/22/2011 9:18:57 AM

Total: 4 comment(s)

BMP

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

Total: 0 comment(s)