


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: 400171328 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 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>Fabrianna Venaducci</u> Phone: <u>(303)279-0789</u> Fax: <u>(303)279-1124</u> Email: <u>fabrianna@jameskaro.com</u>							
7. Well Name: <u>Slick Rock</u>		Well Number: <u>18-44-7-60</u>					
8. Unit Name (if appl): _____		Unit Number: _____					
9. Proposed Total Measured Depth: <u>11582</u>							
WELL LOCATION INFORMATION							
10. QtrQtr: <u>SESE</u> Sec: <u>18</u> Twp: <u>7N</u> Rng: <u>60W</u> Meridian: <u>6</u> Latitude: <u>40.568590</u> Longitude: <u>-104.130600</u>							
Footage at Surface: <u>245</u> feet FNL/FSL <u>FSL</u> <u>965</u> feet FEL/FWL <u>FEL</u>							
11. Field Name: <u>wildcat</u>		Field Number: <u>99999</u>					
12. Ground Elevation: <u>4922.5</u>		13. County: <u>WELD</u>					
14. GPS Data: Date of Measurement: <u>04/14/2011</u> PDOP Reading: <u>1.8</u> Instrument Operator's Name: <u>L. Kelley Stevenson</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 FEL/FWL Bottom Hole: FNL/FSL FEL/FWL <u>704</u> <u>FSL</u> <u>1318</u> <u>FEL</u> <u>660</u> <u>FNL</u> <u>960</u> <u>FWL</u> Sec: <u>18</u> Twp: <u>7N</u> Rng: <u>60W</u> Sec: <u>18</u> Twp: <u>7N</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>223</u>							
18. Distance to nearest property line: <u>245</u> 19. Distance to nearest well permitted/completed in the same formation: <u>5279 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	535-41	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):
7N, 60W, Sec. 18: ALL

25. Distance to Nearest Mineral Lease Line: 660 ft 26. Total Acres in Lease: 640

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: _____

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
1ST	8+3/4	7	23	0	6,675	636	6,675	1,400
2ND	6+1/8	4+1/2	11.6	0	11,582	414	11,582	5,675

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

33. Comments THIS FORM 2 IS SUBMITTED IN CONJUNCTION WITH FORM 2 (PILOT - DOCUMENT NUMBER 400171310) AND FORM 2A (DOCUMENT NUMBER 400171337). Application for a drilling and spacing unit has been made and is on the June 27 and 28, 2011 docket for approval. Well Location Certificate/plat reflects pad elevation. Ground and pad elevation are the same. Distance to the nearest well permitted/completed in same formation is for the Slick Rock 19-44-7-60, bottom hole to bottom hole. The distance between the tops of the production zones is 5250'.

34. Location ID: 424421

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: Fabrianna Venaducci

Title: Contract Landman Date: 6/22/2011 Email: fabrianna@jameskaro.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: 7/24/2011

Permit Number: _____ Expiration Date: 7/23/2013

API NUMBER

05 123 34020 01

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 Colby Horton at 970-467-2517 or e-mail at colby.horton@state.co.us.
- 2) Provide cement coverage from TD 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.

Attachment Check List

Att Doc Num	Name
400171328	FORM 2 SUBMITTED
400172012	WELL LOCATION PLAT
400173382	DEVIATED DRILLING PLAN
400178281	TOPO MAP

Total Attach: 4 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
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.	7/20/2011 3:01:22 PM
Permit	Topo map won't open, back to draft. sbf	6/23/2011 9:58:27 AM

Total: 2 comment(s)

BMP

<u>Type</u>	<u>Comment</u>
Construction	<p>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.</p> <p>The location will be fenced and the fenced area will include the Fresh Water Storage Pit.</p> <p>The COGCC to be notified 48 hours prior to construction of the Fresh Water Storage Pit.</p>
Drilling/Completion Operations	<p>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.</p> <p>Fresh water for the Fresh Water Storage Pit comes from water provider; water sources permitted for consumable industrial use.</p> <p>Operator shall not allow any fluids to flow back to the Fresh Water Storage Pit.</p> <p>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.</p>

Total: 2 comment(s)