

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



DE	ET	OE	ES
Document Number: 400171370			
PluggingBond SuretyID 20100108			

APPLICATION FOR PERMIT TO:

1. ☒ Drill, ☐ Deepen, ☐ Re-enter, ☐ Recomplete and Operate

2. TYPE OF WELL

OIL ☒ GAS ☐ COALBED ☐ OTHER LATERAL  
SINGLE ZONE ☐ MULTIPLE ☐ COMMINGLE ☐

Refiling ☐  
Sidetrack ☒

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: Fabrianna Venaducci Phone: (303)279-0789 Fax: (303)279-1124

Email: fabrianna@jameskaro.com

7. Well Name: Slick Rock Well Number: 19-44-7-60

8. Unit Name (if appl): \_\_\_\_\_ Unit Number: \_\_\_\_\_

9. Proposed Total Measured Depth: 12178

WELL LOCATION INFORMATION

10. QtrQtr: SESE Sec: 19 Twp: 7N Rng: 60W Meridian: 6

Latitude: 40.554410 Longitude: -104.128740

Footage at Surface: 361 feet FSL 309 feet FEL

11. Field Name: wildcat Field Number: 99999

12. Ground Elevation: 4976.3 13. County: WELD

14. GPS Data:

Date of Measurement: 04/14/2011 PDOP Reading: 1.8 Instrument Operator's Name: L. Kelley Stevenson

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  
832 FSL 650 FEL 650 FNL 1993 FEL  
Sec: 19 Twp: 7N Rng: 60W Sec: 19 Twp: 7N Rng: 60W

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: 1067 ft

18. Distance to nearest property line: 309 ft 19. Distance to nearest well permitted/completed in the same formation: 5279 ft

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

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 19: ALL; Sec 29: W2; Sec 30: W2

25. Distance to Nearest Mineral Lease Line: 650 ft

26. Total Acres in Lease: 1280

### 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	6,728	643	1,400	6,728
2ND	6+1/8	4+1/2	11.6	0	12,178	452	12,178	5,728

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 400171353) AND FORM 2A (DOCUMENT NUMBER 400171386). 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 nearest well permitted/completed in the same formation is for the proposed Slick Rock 18-44-7-60, bottom hole to bottom hole. The distance between the tops of the production zones is 5250'.

34. Location ID: 424596

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: 8/7/2011

#### API NUMBER

05 123 34100 01

Permit Number: \_\_\_\_\_ Expiration Date: 8/6/2013

#### 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 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
2530900	WELL LOCATION PLAT
2530901	DEVIATED DRILLING PLAN
400171370	APD APPROVED
400174395	TOPO MAP
400192974	FORM 2 SUBMITTED

Total Attach: 5 Files

### **General Comments**

<b><u>User Group</u></b>	<b><u>Comment</u></b>	<b><u>Comment Date</u></b>
Permit	New directional and survey plat moved the trajectory of the well to more than 600 feet from section line.	3/3/2011 1:13:33 PM
Permit	On hold top of producing zone appears to be 521 feet FEL and it needs to be 600 feet.	7/19/2011 3:42:08 PM
Permit	On hold Needs new directional survey to match location plat.	7/12/2011 11:49:56 AM
Permit	Revised bottom hole per operator.	7/12/2011 11:38:26 AM
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.	6/24/2011 6:05:28 AM

Total: 5 comment(s)

### **BMP**

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

Total: 2 comment(s)