

**APPLICATION FOR PERMIT TO:**

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

2. TYPE OF WELL OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> COALBED <input type="checkbox"/> OTHER <input type="checkbox"/> <u>PILOT</u> SINGLE ZONE <input type="checkbox"/> MULTIPLE <input type="checkbox"/> COMMINGLE <input type="checkbox"/>	Refiling <input type="checkbox"/> Sidetrack <input type="checkbox"/>
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Document Number:  
400171353

PluggingBond SuretyID  
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: 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: 7540

**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  
FNL/FSL      FEL/FWL

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  
 \_\_\_\_\_      \_\_\_\_\_      \_\_\_\_\_      \_\_\_\_\_      \_\_\_\_\_  
 Sec: \_\_\_\_\_      Twp: \_\_\_\_\_      Rng: \_\_\_\_\_      Sec: \_\_\_\_\_      Twp: \_\_\_\_\_      Rng: \_\_\_\_\_

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: 5205 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.)
Dakota	DKTA			
Niobrara	NBRR			

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: 309 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
SURF	12+1/4	9+5/8	36	0	1,400	534	1,400	0

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

33. Comments THIS FORM 2 IS SUBMITTED FOR A PILOT HOLE IN CONJUNCTION WITH FORM 2 (HORIZONTAL - DOCUMENT NUMBER 400171370) AND FORM 2A (DOCUMENT NUMBER 400171386), and attachments submitted with said forms are applicable to this pilot hole. 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. Pad and ground elevation are the same. Distance to nearest well permitted/completed in the same formation is for the proposed Slick Rock 18-44-7-60, top hole to top hole. Pilot hole will be plugged back at TD to 5628' with 1089 sacks of cement; hole size is 8.75".

34. Location ID: \_\_\_\_\_

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 00

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) Plug back pilot hole as proposed on line 33 comments or at a minimum: Set 70 sks cement from 50' below D-Sand base to 100' above D-Sand top. Set 40 sks cement 50' above Niobrara top. This is in addition to kick off plug.

A well being completed deeper than 2500 feet must be 600 feet from a lease line or requires an approved exception location. per rule 318a..

### Attachment Check List

Att Doc Num	Name
400171353	APD APPROVED
400174402	WELL LOCATION PLAT
400174403	TOPO MAP
400192942	FORM 2 SUBMITTED

Total Attach: 4 Files

### General Comments

User Group	Comment	Comment Date
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 6:06:34 AM

Total: 1 comment(s)

### BMP

Type	Comment
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)