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Document Number:  
400170630

PluggingBond SuretyID  
20100108

**APPLICATION FOR PERMIT TO:**

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

2. TYPE OF WELL

OIL  GAS  COALBED  OTHER PILOT HOLE

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: KIMBERLY LONG Phone: (713)328-1000 Fax: (713)328-1060  
 Email: kimberly.long@crzo.net

7. Well Name: SLICK ROCK Well Number: 17-11-7-60

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

9. Proposed Total Measured Depth: 6994

**WELL LOCATION INFORMATION**

10. QtrQtr: NW NW Sec: 17 Twp: 7N Rng: 60W Meridian: 6  
 Latitude: 40.581740 Longitude: -104.124370

Footage at Surface: 255 feet FNL 677 feet FWL

11. Field Name: WILDCAT Field Number: 99999

12. Ground Elevation: 4928 13. County: WELD

14. GPS Data:  
 Date of Measurement: 03/08/2011 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: 374 ft

18. Distance to nearest property line: 255 ft 19. Distance to nearest well permitted/completed in the same formation: 1985 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.)
NIOBRARA	NBRR	535-65	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#: \_\_\_\_\_

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):

T7N R60W - SECTION 17: ALL

25. Distance to Nearest Mineral Lease Line: 255 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: Landfarm/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	534	1,400	0

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

33. Comments THIS IS A PILOT HOLE FOR INFORMATIONAL PURPOSES ONLY. THIS WELL WILL BE PB'D AFTER REACHING TD WITH 811 SX OF CEMENT; TOP OF CEMENT WILL BE 5570'. NO CONDUCTOR CASING WILL BE SET. APPLICATION FOR A DRILLING AND SPACING UNIT HAS BEEN MADE AND IS ON THE JUNE 27 AND 28, 2011 DOCKET FOR APPROVAL.

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: KIMBERLY LONG

Title: COMPLIANCE SPECIALIST Date: 6/6/2011 Email: kimberly.long@crzo.net

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: 8/15/2011

**API NUMBER**  
05 123 34141 00

Permit Number: \_\_\_\_\_ Expiration Date: 8/14/2013

**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 and be at least 1200 feet from a well permitted/producing from the same formation, or requires an approved exception location. per rule 318a.

### Attachment Check List

Att Doc Num	Name
2568204	SURFACE CASING CHECK
400170630	FORM 2 SUBMITTED
400171653	WELL LOCATION PLAT
400171654	WELL LOCATION PLAT

Total Attach: 4 Files

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	On pending outcome of August hearing to resolve conflict.	8/5/2011 10:46:59 AM
Permit	Spacing order conflicts with another - On hold	7/19/2011 4:10:15 PM
Permit	On hold pending June hearing (1106-sp-67)	3/7/2011 9:51:14 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.	3/7/2011 9:51:06 AM

Total: 4 comment(s)

### BMP

<u>Type</u>	<u>Comment</u>
Material Handling and Spill Prevention	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.
Storm Water/Erosion Control	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.
Site Specific	Fresh water for the Fresh Water Storage Pit comes from water provider; water sources permitted for consumable industrial use.
Material Handling and Spill Prevention	Operator shall not allow any fluids to flow back to the Fresh Water Storage Pit.
Site Specific	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.
Construction	The location will be fenced and the fenced area will include the Fresh Water Storage Pit.
Pre-Construction	The COGCC to be notified 48 hours prior to construction of the Fresh Water Storage Pit.

Total: 7 comment(s)