

**APPLICATION FOR PERMIT TO:**

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

2. TYPE OF WELL

OIL       GAS       COALBED       OTHER Horizontal

SINGLE ZONE       MULTIPLE       COMMINGLE

Refiling   
Sidetrack

Document Number:  
400192645

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: Tina Taylor      Phone: (713)328-1000      Fax: (713)358-6440  
Email: tina.taylor@crzo.net

7. Well Name: Orlando Hill      Well Number: 21-44-7-60

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

9. Proposed Total Measured Depth: 10864

**WELL LOCATION INFORMATION**

10. QtrQtr: SESE      Sec: 21      Twp: 7N      Rng: 60W      Meridian: 6  
Latitude: 40.554130      Longitude: -104.090180

Footage at Surface:      261      feet      FSL      240      feet      FEL

11. Field Name: Wildcat      Field Number: 99999

12. Ground Elevation: 4915.2      13. County: WELD

14. GPS Data:  
Date of Measurement: 04/05/2011      PDOP Reading: 2.0      Instrument Operator's Name: George Allen

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

669      FSL      651      FEL      650      FNL      650      FEL

Sec: 29      Twp: 7N      Rng: 60W      Sec: 29      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: 5280 ft

18. Distance to nearest property line: 210      19. Distance to nearest well permitted/completed in the same formation: 5275 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	535-21	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):

Township 7 North, Range 60 West, 6th P.M. Section 21: E1/2SE1/4, & SE1/4NE1/4

25. Distance to Nearest Mineral Lease Line: 650 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 Burial/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		0	1,400	534	1,400	0
1ST	8+3/4	7	23	1400	6,622	630	6,622	1,400
1ST LINER	6+1/4	4+1/2	11.6	6622	10,508	343	10,508	5,622

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

33. Comments No conductor casing will be set. Nearest Water Well is permit 47335

34. Location ID: 425312

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: Tina Taylor

Title: Regulatory Compliance Date: 8/16/2011 Email: tina.taylor@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. Neslin Director of COGCC Date: 9/12/2011

<b>API NUMBER</b>
05 123 34345 01

Permit Number: \_\_\_\_\_ Expiration Date: 9/11/2013

**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 base of intermediate casing 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
400192645	FORM 2 SUBMITTED
400192693	WELL LOCATION PLAT
400196214	DEVIATED DRILLING PLAN

Total Attach: 3 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.	8/17/2011 9:21:59 AM
Permit	BHL location resolved	8/17/2011 9:21:26 AM
Permit	On hold problems locating the BHL and top of production.	8/17/2011 7:02:18 AM
Permit	Returned at Operators Request. Surface appears to own the minerals.	8/16/2011 12:28:47 PM
Permit	Returned to draft. Deviated drilling attachment is for a different well.	8/16/2011 10:52:21 AM

Total: 5 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/Pond.
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.
Planning	A Form 15 Pit Report will be submitted within 30 days of construction of the fresh water storage pit.

Total: 8 comment(s)