

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

Document Number:
400145172

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: LISA SMITH Phone: (303)8579999 Fax: (303)4509200
Email: lspermitco@aol.com

7. Well Name: Allred Well Number: 25-44-8-60

8. Unit Name (if appl): _____ Unit Number: _____

9. Proposed Total Measured Depth: 11903

WELL LOCATION INFORMATION

10. QtrQtr: SE SE Sec: 25 Twp: 8N Rng: 60W Meridian: 6
Latitude: 40.627810 Longitude: -104.031210

Footage at Surface: 582 feet FSL 222 feet FEL

11. Field Name: Buckingham West Field Number: 7572

12. Ground Elevation: 4934 13. County: WELD

14. GPS Data:
Date of Measurement: 02/25/2011 PDOP Reading: 2.1 Instrument Operator's Name: Dave Murrey

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

1034 FSL 1075 FEL 650 FNL 650 FWL

Sec: 25 Twp: 8N Rng: 60W Sec: 25 Twp: 8N 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: 1300 ft

18. Distance to nearest property line: 222 ft 19. Distance to nearest well permitted/completed in the same formation(BHL): 5280 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	535-70	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):

T8N - R60W: Section 25: S/2, NW

25. Distance to Nearest Mineral Lease Line: 650 ft 26. Total Acres in Lease: 4490

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: Burial and 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
1ST	8+3/4	7	23	1400	6,543	621	6,543	1,400
1ST LINER	6+1/8	4+1/2	11.6	6543	11,903	446	11,903	6,543

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

33. Comments This application is for a sidetrack. No conductor casing will be set. This well will be plugged back after reaching TD with 906 sx of cement; top of cement will be 5444'. Waiting on spacing hearing in August.

34. Location ID: 425475

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: LISA SMITH

Title: Regulatory Supervisor Date: 3/22/2011 Email: lspermitco@aol.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: 9/22/2011

API NUMBER
05 123 34404 01

Permit Number: _____ Expiration Date: 9/21/2013

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 hr notice of MIRU to Bo Brown at email at bo.brown@state.co.us.
- 2) Set surface casing per Rule 317d, cement to surface. Setting surface casing less than the approved depth is a permit violation unless prior written approval is obtained from the COGCC.
- 3) If completed, provide cement coverage from the intermediate casing shoe to a minimum of 200' above Niobrara. Verify cement with a cement bond log.
- 4) If hole is abandoned with production liner, then set 40 sks cement in casing at the intermediate casing shoe, cut off casing above top of cement.
- 5) If dry hole without production liner, then set 40 sks cement in open hole 50' above Niobrara top.
- 6) With either 4 or 5 above, set 50 sks cement ½ out, ½ in surface casing, 10 sks cement top of surface casing, cut 4' below ground level, weld on plate, 5 sks cement in rat hole & 5 sks cement in mouse hole.
- 7) Comply with Rule 321. 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
2112202	SURFACE CASING CHECK
400145172	FORM 2 SUBMITTED
400145466	WELL LOCATION PLAT
400145467	DEVIATED DRILLING PLAN

Total Attach: 4 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Continued to the September hearing	8/11/2011 4:01:23 PM
Permit	On hold waiting on spacing hearing in August.	7/6/2011 9:48:20 AM
Permit	--ON HOLD--Lands are unspaced, fall under lease distance 318a--APD cannot be approved at this time. Wellbore encroaches 600' or less to lease line. Lease distance set to 0. Side plot is missing data, needs to reflect the pilot hole as proposed.---Reviewed--Requires spacing,not included in May spacing Application.	3/31/2011 5:49:14 PM
Permit	-Changed distance to nearest lease to 0 per lease description and wellbore path. Changed field name to Buckingham West from wildcat	3/31/2011 5:46:04 PM

Total: 4 comment(s)

BMP

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

Total: 0 comment(s)