

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



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APPLICATION FOR PERMIT TO:

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

2. TYPE OF WELL

OIL GAS COALBED OTHER Listening Well
SINGLE ZONE MULTIPLE ZONE COMMINGLE ZONE

Refiling
Sidetrack

Document Number:
400126109
Plugging Bond Surety
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: Venessa Langmacher Phone: (303)8579999 Fax: (303)4509200
Email: vllpermitco@aol.com

7. Well Name: Sohio State Well Number: 1

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

9. Proposed Total Measured Depth: 7297

WELL LOCATION INFORMATION

10. QtrQtr: NE SW Sec: 36 Twp: 9N Rng: 61W Meridian: 6
Latitude: 40.703680 Longitude: -104.155860

Footage at Surface: 1947 feet FNL/FSL FSL 1937 feet FEL/FWL FWL

11. Field Name: Shivaree Field Number: 77452

12. Ground Elevation: 4999.4 13. County: WELD

14. GPS Data:

Date of Measurement: 12/20/2010 PDOP Reading: 2.4 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 _____
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: 235 ft

18. Distance to nearest property line: 1961 ft 19. Distance to nearest well permitted/completed in the same formation: 5280 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			

21. Mineral Ownership: Fee State Federal Indian Lease #: 8438.5

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 Bon \$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):
T9N-R61W: Section 36: All

25. Distance to Nearest Mineral Lease Line: 1961 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: _____

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	8+5/8	24	0	162	100	162	0
1ST	7+7/8	5+1/2	15.5, 14	0	7,297	175	7,297	

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

33. Comments All casing and cement is existng. This well is for a listening well only. No production will be established. The rig height will be 151 feet.

34. Location ID: 405863

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: Venessa Langmacher

Title: Regulatory Supervisor Date: 1/21/2011 Email: vlpermitco@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: 2/11/2011

API NUMBER
05 123 07183 00

Permit Number: _____ Expiration Date: 2/10/2013

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 spud and if DA to Bo Brown at 970-392-4124 or e-mail at bo.brown@state.co.us.
- 2) Set surface casing per Rule 317d, 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 TD to a minimum of 200' above the Niobrara. Verify coverage with cement bond log.
- 4) When abandoned, 40 sks cement 50' above Niobrara top, 50 sks cement 800' in/out of casing, tag 50 sks cement ½ out, ½ in surface casing, 10 sks cement top of surface casing, cut 4' below GL, weld on plate, 5 sks cement in rat hole & 5 sks cement in mouse hole. Restore location.
- 5) This well is not authorized for production.

Attachment Check List

Att Doc Num	Name
2530179	WAIVERS
2566573	SURFACE CASING CHECK
400126109	FORM 2 SUBMITTED
400126494	PLAT
400126495	OTHER

Total Attach: 5 Files

General Comments

User Group	Comment	Comment Date
Agency	Operator requests approval under exigent circumstances, Rule 303.I. because rig has mobilized and is ready to move in and rig up; operaor is paying standby charges and employes are standing by. Surface owner has waived the early start and the county government has consented verbally, comment period expires on the 13th.	2/11/2011 2:14:22 PM
Permit	Surface Restoration Bond on file with SLB; per Tim Kelly	2/11/2011 8:58:05 AM
Permit	E-mailed Tim Kelly at SLB for verification of Surface Restoration bond.	2/11/2011 8:48:50 AM
Permit	All casing and cement is existng. This well is for a listening well only. No production will be established. The rig height will be 151 feet.(operator comment)	1/27/2011 7:42:20 AM

Total: 4 comment(s)

BMP

Type	Comment

Total: 0 comment(s)