

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 Hole</u> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE <input type="checkbox"/> COMMINGLE <input type="checkbox"/>	Refiling <input type="checkbox"/> Sidetrack <input type="checkbox"/>
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Document Number:
400192424
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: Sievers Well Number: 20-44-8-61
 8. Unit Name (if appl): _____ Unit Number: _____
 9. Proposed Total Measured Depth: 7156

WELL LOCATION INFORMATION

10. QtrQtr: SESE Sec: 20 Twp: 8N Rng: 61W Meridian: 6
 Latitude: 40.640580 Longitude: -104.222040
 Footage at Surface: 260 feet FNL/FSL 413 feet FEL/FWL FEL
 11. Field Name: Wildcat Field Number: 99999
 12. Ground Elevation: 5029 13. County: WELD

14. GPS Data:
 Date of Measurement: 06/07/2011 PDOP Reading: 1.7 Instrument Operator's Name: Marc Woodard

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: 240 ft
 18. Distance to nearest property line: 260 ft 19. Distance to nearest well permitted/completed in the same formation: 1357 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	535-3	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):

Township 8 North, Range 61 West, 6th P.M. Section 20: E/2

25. Distance to Nearest Mineral Lease Line: 260 ft 26. Total Acres in Lease: 320

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	36	0	1,400	534	1,400	0
OPEN HOLE	8+3/4					722	7,156	1,400

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

33. Comments This is a Pilot Hole for informational purposes only and will be plugged back at TD with 722 sacks of cement. Top of cement will be 5888. No conductor casing will be set.

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: Tina Taylor

Title: Regulatory Compliance Date: 8/4/2011 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. Nashine Director of COGCC Date: 9/11/2011

API NUMBER
05 123 34346 00

Permit Number: _____ Expiration Date: 9/10/2013

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 hour notice of MIRU to Jim Precup at 303-469-1902 or e-mail at james.precup@state.co.us .
 2) Plug back pilot hole as proposed on line 33 comments or at a minimum set 60 sks cement from 50' below D-Sand base to 100' above D-Sand top and set 40 sks cement 50' above Niobrara top, 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
400192424	FORM 2 SUBMITTED
400192445	WELL LOCATION PLAT

Total Attach: 2 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Operator confirmed 640 spacing	8/31/2011 6:12:28 PM
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.	3/5/2011 9:49:10 AM
Permit	On hold spacing unit of the E/2 does not go with the 640 spacing under 535-3.	3/5/2011 9:46:00 AM
Permit	Returned to draft. Given QtrQtr does not match the given lat long.	3/5/2011 7:22:01 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/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)