

FORM  
2

Rev  
12/05

State of Colorado  
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 894-2100 Fax: (303) 894-2109



Document Number:

400298884

Date Received:

09/10/2012

PluggingBond SuretyID

20090080

APPLICATION FOR PERMIT TO:

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

2. TYPE OF WELL

OIL ☐ GAS ☒ COALBED ☐ OTHER \_\_\_\_\_  
SINGLE ZONE ☐ MULTIPLE ☒ COMMINGLE ☐

Refiling ☐

Sidetrack ☐

3. Name of Operator: GREAT WESTERN OIL & GAS COMPANY LLC

4. COGCC Operator Number: 10110

5. Address: 700 AUTOMATION DR - UNIT A

City: WINDSOR State: CO Zip: 80550-3119

6. Contact Name: Janni Keidel Phone: (303)398-0388 Fax: (866)742-1784

Email: jkeidel@gwogco.com

7. Well Name: Peterson CX GH Well Number: #30-28D

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

9. Proposed Total Measured Depth: 6969

WELL LOCATION INFORMATION

10. QtrQtr: SWNE Sec: 30 Twp: 5N Rng: 63W Meridian: 6

Latitude: 40.373792 Longitude: -104.477889

Footage at Surface: 1408 feet FNL 2280 feet FEL

11. Field Name: Wattenberg Field Number: 90750

12. Ground Elevation: 4572 13. County: WELD

14. GPS Data:

Date of Measurement: 05/18/2012 PDOP Reading: 1.8 Instrument Operator's Name: Robert Kay

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  
50 FNL 2610 FEL 50 FNL 2610 FEL  
Sec: 30 Twp: 5N Rng: 63W Sec: 30 Twp: 5N Rng: 63W

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: 209 ft

18. Distance to nearest property line: 343 ft 19. Distance to nearest well permitted/completed in the same formation(BHL): 886 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-Codell	NB-CD		160	GWA

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: 5 North, Range: 63 West, Section 30: NE/4

25. Distance to Nearest Mineral Lease Line: 15 ft

26. Total Acres in Lease: 160

### 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	600	277	600	0
1ST	7+7/8	4+1/2	11.6	0	6,969	689	6,969	3,285

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

33. Comments No Conductor casing will be set. Production Casing will be set at a minimum of 200' above the Niobrara. 30 Day letter is attached. Exception location and rig height waiver letters also attached along with request for approval to the director. Proposed wellbore spacing is NW/4NE/4, NE/4NW/4 of Section 30 and SW/4SE/4, SE/4SW/4 of Section 19. Request for Wellbore spacing also attached.

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: Janni Keidel

Title: Permit & Reg Analyst Date: 9/10/2012 Email: jkeidel@gwogco.com

Operator must have a valid water right or permit allowing for industrial use or purchased water from a seller that has a valid water right or permit allowing for industrial use, otherwise an application for a change in type of use is required under Colorado law. Operator must also use the water in the location set forth in the water right decree or well permit, otherwise an application for a change in place of use is required under Colorado law. Section 37-92-103(5), C.R.S. (2011).

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: Matthew Lee Director of COGCC Date: 10/18/2012

#### API NUMBER

05 123 36170 00

Permit Number: \_\_\_\_\_ Expiration Date: 10/17/2014

#### 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 notice of MIRU via an electronic Form 42.  
 2)Comply with Rule 317.i and provide cement coverage from the 4.5" casing TD to a minimum of 200' above the Niobrara. Verify coverage with a cement bond log.

Operator must meet water well testing requirements per Rule 318A.

Wellhead is 209' to the nearest aboveground utility, the rig used to drill the subject well must not have a derrick height of greater than one and one-half (1-1/2) times the rig height or 139 feet.

### **Attachment Check List**

Att Doc Num	Name
2233052	EXCEPTION LOC WAIVERS
2233082	DEVIATED DRILLING PLAN
2233083	WELL LOCATION PLAT
2481812	SURFACE CASING CHECK
400298884	FORM 2 SUBMITTED
400299032	TOPO MAP
400312227	SURFACE AGRMT/SURETY
400312228	MINERAL LEASE MAP
400325075	PROPOSED SPACING UNIT
400325077	WAIVERS
400325248	30 DAY NOTICE LETTER
400336016	DIRECTIONAL DATA

Total Attach: 12 Files

### **General Comments**

<b><u>User Group</u></b>	<b><u>Comment</u></b>	<b><u>Comment Date</u></b>
Permit	Final Review Completed. No LGD or public comment received.	10/15/2012 7:52:59 AM
Permit	Attached new deviated drilling plan, plat, and directional template per operator. Also corrected TOP, BHL and distance to nearest lease line per operator.	10/11/2012 3:43:34 PM
Permit	On Hold. Operator plans to move the BHL. Waiting on updated attachments and footages.	10/10/2012 7:07:19 AM
Permit	Operator requests approval of a Rule 318Aa and Rule 318Ac exception location: Wellhead is to be located outside of a GWA drilling window and will be located more than 50' from an existing well location. Request and waivers attached.	10/4/2012 7:15:23 AM
Permit	Changed mud disposal method per operator. Final Review Completed. No LGD or public comment received.	10/4/2012 7:14:40 AM
Permit	Attached new exception location waivers per operator	9/27/2012 3:43:20 PM
Permit	Input updated distance to nearest BHL and nearest utility per operator.	9/24/2012 10:48:42 AM
Permit	Input distance to nearest lease line per operator. Requested exception location waiver for 50' twinning requirement, updated distance to BHL, and distance to nearest utility, public road, or rail road. Well will likely need a COA for rig height based on nearest public utility, road, or rail road.	9/18/2012 6:36:54 AM

Total: 8 comment(s)

## BMP

<u>Type</u>	<u>Comment</u>
Drilling/Completion Operations	<p>Great Western Oil &amp; Gas Company, LLC - Best Management Practices - Summary</p> <p>Storm water management Plans (SWMP) will be in place to address construction, drilling and operations associated with Oil and Gas development throughout the state of Colorado in accordance with Colorado Department of Public Health (CDPHE). BMP's will be constructed around the perimeter of the site prior to or at the beginning of construction; BMP's used will vary according to the location, and will remain in place until the pad reaches final reclamation.</p> <p>Spill Prevention Control and Counter Measures (SPCC) plans will be in place to address any possible spills associated with Oil and Gas operations throughout the state of Colorado in accordance with CFR 112. In accordance with COGCC Rule 1002.f.(2) A. &amp; B., shall provide a designated storage area for dry bulk chemicals and miscellaneous fluids. The storage area shall be covered to prevent contact of precipitation with chemicals, shall be elevated above storm- or standing water, and shall provide sufficient containment to prevent release of spilled fluids or chemicals from impacting soil, surface water or groundwater and will prevent the co-mingling of spilled fluids or chemicals with other E &amp; P Waste.</p> <p>Housekeeping will consist of neat and orderly storage of materials and fluids. Wastes will be temporarily stored in sealed containers and regularly collected and disposed of at offsite, suitable facilities. If spills occur prompt cleanup is required to minimize any commingling of waste materials with storm water runoff. Routine maintenance will be limited to fueling and lubrication of equipment. Drip pans will be used during routine fueling and maintenance to contain spills or leaks. Any waste product from maintenance will be containerized and transported offsite for disposal or recycling, There will be no major equipment overhauls conducted onsite. Equipment will be transported offsite for major overhauls. Cleanup will consist of patrolling the roadways, access areas, and other work areas to pick up trash, scrap debris, other discarded materials, and any contaminated soil. These materials will be disposed of properly and promptly.</p>
Drilling/Completion Operations	<p>The Anti-Collision BMP is for wellbores within 150'.</p> <p>Prior to drilling operations, Great Western Oil &amp; Gas Company will perform an anti-collision scan of existing offset wells that have the potential of being within close proximity of the proposed well. This anti-collision scan will include definitive MWD or gyro surveys of the offset wells with included error of uncertainty per survey instrument, and compared against the proposed wellpath with its respective error of uncertainty. If current surveys do not exist for the offset wells, Great Western will have gyro surveys conducted to verify bottomhole location. The proposed well will only be drilled if the anti-collision scan results indicate that there is not a risk for collision, or harm to people or the environment. For the proposed well, upon conclusion of drilling operations, an as-constructed gyro survey will be submitted to COGCC with the Form 5.</p>

Total: 2 comment(s)