

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:

400446999

Date Received:

07/16/2013

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 OPERATING COMPANY LLC

4. COGCC Operator Number: 10110

5. Address: 1700 BROADWAY SUITE 650

City: DENVER State: CO Zip: 80290

6. Contact Name: Shannon Hartnett Phone: (303)8309893 Fax: ()

Email: shartnett@gwogco.com

7. Well Name: Willow Bend LD Well Number: 18-23HC

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

9. Proposed Total Measured Depth: 12893

WELL LOCATION INFORMATION

10. QtrQtr: NENE Sec: 18 Twp: 1S Rng: 67W Meridian: 6

Latitude: 39.970962 Longitude: -104.924311

Footage at Surface: 336 feet FNL/FSL 646 feet FEL/FWL FEL

11. Field Name: Spindle Field Number: 77900

12. Ground Elevation: 5235 13. County: ADAMS

14. GPS Data:

Date of Measurement: 06/05/2013 PDOP Reading: 1.9 Instrument Operator's Name: B. Hardenbergh

15. If well is ☐ Directional ☒ Horizontal (highly deviated) **submit deviated drilling plan.**

Footage at Top of Prod Zone: FNL/FSL 460 FNL 1665 FEL 470 FSL 1665 FEL
Sec: 18 Twp: 1S Rng: 67W Sec: 18 Twp: 1S Rng: 67W

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: 305 ft

18. Distance to nearest property line: 335 ft 19. Distance to nearest well permitted/completed in the same formation(BHL): 917 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.)
CODELL	CODL		640	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):

See attached map.

25. Distance to Nearest Mineral Lease Line: 335 ft

26. Total Acres in Lease: 624

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	9+5/8	36	0	1,025	273	1,025	0
1ST	8+3/4	7	23	0	8,589	790	8,589	725
2ND	6+1/8	4+1/2	11.6	7816	12,893			

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

33. Comments - No Conductor casing will be set.- Proposed spacing unit is Sec 18 T1S R67W- Cement will be set at least 200 feet above the Niobrara- DJ Basin Horizontal Offset Policy spreadsheet is attached- Casing 2nd string: uncemented liner with packers and ports 30 day notification is not applicable for this location as Great Western is at 100% well interest

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: Shannon Hartnett

Title: Reg. Compl. Spec.

Date: 7/16/2013

Email: shartnett@gwogco.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: _____ Director of COGCC Date: _____

API NUMBER

05

Permit Number: _____ Expiration Date: _____

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.

Date retrieval failed for the subreport 'IntPolicy_MTC' located at: \\W:\extpub\Net\Reports\policy_mtc.rdl. Please check th

Attachment Check List

Att Doc Num	Name
400446999	FORM 2 SUBMITTED
400447797	PLAT
400447836	DEVIATED DRILLING PLAN
400447843	DIRECTIONAL DATA
400447846	EXCEPTION LOC WAIVERS
400447850	SURFACE AGRMT/SURETY
400448706	MINERAL LEASE MAP
400448707	EXCEPTION LOC REQUEST
400448708	PROPOSED SPACING UNIT
400459204	OFFSET WELL EVALUATION

Total Attach: 10 Files

General Comments

User Group	Comment	Comment Date
Permit	REturned to draft: missing offset well spreadsheet. Line 22b should be N/A because surface owner is the mineral owner. Directional data not loaded.	7/17/2013 2:27:07 PM

Total: 1 comment(s)

BMP

Type	Comment
Drilling/Completion Operations	Great Western will comply with the "COGCC Policy for Bradenhead Monitoring During Hydraulic Fracturing Treatments in the Greater Wattenberg Area", dated May 29, 2012
Planning	Prior to drilling operations, Operator 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 well path with its respective error of uncertainty. If current surveys do not exist for the offset wells, Operator may have gyro surveys conducted to verify bottom hole 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.

Total: 2 comment(s)