

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:

400447157

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)830-9893 Fax: ()

Email: shartnett@gwogco.com

7. Well Name: Willow Bend LD Well Number: 18-22HC

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

9. Proposed Total Measured Depth: 12670

WELL LOCATION INFORMATION

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

Latitude: 39.970960 Longitude: -104.923883

Footage at Surface: 335 feet FNL 527 feet FEL

11. Field Name: Spindle Field Number: 77900

12. Ground Elevation: 5233 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: 470 FNL 480 FEL Bottom Hole: 470 FSL 480 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): 1195 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	8,361	767	8,361	725
2ND	6+1/8	4+1/2	11.6	7496	12,670			

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 Well Policy spreadsheet is attached- Casing 2nd string: uncemented liner with packers and ports

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.

Data retrieval failed for the subreport 'IntPolicy_NTC' located at: W:\ncstrub\Net\Reports\policy_ntc.rdl. Please check th

Attachment Check List

Att Doc Num	Name
400447157	FORM 2 SUBMITTED
400447857	SURFACE AGRMT/SURETY
400447859	EXCEPTION LOC WAIVERS
400447862	WELL LOCATION PLAT
400447872	DEVIATED DRILLING PLAN
400448690	EXCEPTION LOC REQUEST
400448693	MINERAL LEASE MAP
400448696	PROPOSED SPACING UNIT
400459276	OFFSET WELL EVALUATION
400461049	DIRECTIONAL DATA

Total Attach: 10 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Returned to draft. Unable to upload directional data template.	7/30/2013 3:59:11 PM
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 12:59:01 PM

Total: 2 comment(s)

BMP

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