

FORM
2

Rev
12/05

State of Colorado Oil and Gas Conservation Commission

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Document Number:

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Date Received:

02/03/2012

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: Larson Well Number: 20-21

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

9. Proposed Total Measured Depth: 7698

WELL LOCATION INFORMATION

10. QtrQtr: NWNW Sec: 20 Twp: 7N Rng: 66W Meridian: 6

Latitude: 40.564520 Longitude: -104.807530

Footage at Surface: 1111 feet FNL 1183 feet FWL

11. Field Name: Coalbank Creek Field Number: 11449

12. Ground Elevation: 4989 13. County: WELD

14. GPS Data:

Date of Measurement: 05/20/2010 PDOP Reading: 2.0 Instrument Operator's Name: C. Vanmatre

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
627 FNL 1758 FWL 627 FNL 1758 FWL
Sec: 20 Twp: 7N Rng: 67W Sec: 20 Twp: 7N 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: 340 ft

18. Distance to nearest property line: 240 ft 19. Distance to nearest well permitted/completed in the same formation(BHL): 943 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		80	E/2NW/4

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 MINERAL LEASE MAP ATTACHED

25. Distance to Nearest Mineral Lease Line: 240 ft 26. Total Acres in Lease: 28

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	500	415	500	0
1ST	7+7/8	4+1/2	11.6	0	7,698	262	7,698	6,918

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

33. Comments Conductor casing will not be set. 30-DAY NOTICE WAIVER IN SUA. Production casing cement will be 200' above the Niobrara.

34. Location ID: 302242

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: 2/3/2012 Email: jkeidel@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: 3/30/2012

API NUMBER

05 123 35348 00

Permit Number: _____ Expiration Date: 3/29/2014

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.

Operator must meet Water Well Testing requirements as per amended Rule 318A.

- 1) Provide 48 hour notice of MIRU to Jim Precup via e-mail at james.precup@state.co.us.
- 2) Comply with Rule 317.i and provide cement coverage from the end of the production casing to a minimum of 200' above the Niobrara. Verify coverage with a cement bond log.
- 3) Comply with Rule 321. Run and submit Directional Survey from the TD to surface. Ensure that the wellbore complies with setback requirements in commission orders or rules prior to producing the well.

Attachment Check List

Att Doc Num	Name
2113461	MINERAL LEASE MAP
2481436	SURFACE CASING CHECK
400232777	FORM 2 SUBMITTED
400237996	WELL LOCATION PLAT
400237998	TOPO MAP
400241677	OIL & GAS LEASE
400241679	SURFACE AGRMT/SURETY
400246070	DEVIATED DRILLING PLAN
400246076	DIRECTIONAL DATA

Total Attach: 9 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Corrected Top of Production, unit acreage, and attached mineral lease map as per opr instructions. Final review complete.	3/29/2012 8:18:26 AM
Permit	Lease doesn't cover BHL & Unit acreage doesn't match the lease. On hold. Operator notified.	3/27/2012 9:47:58 AM
Permit	BHL was the same as WB Farms 20-21. Opr abandoned WB Farms 20-21 with Sundry doc 2113432. However this well plots off of the requested amended 2A pad by 96' and from the wellhead 200'.	3/15/2012 10:24:30 AM
Permit	Operator corrected #22a and #31. This form has passed completeness.	2/6/2012 12:16:25 PM
Permit	Returned to draft. Missing 22a and #31.	2/6/2012 8:24:57 AM

Total: 5 comment(s)

BMP

<u>Type</u>	<u>Comment</u>
Drilling/Completion Operations	<p>Great Western Oil & Gas Company, LLC-Best Management Practices-Summary 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. & 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 & 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>

Total: 1 comment(s)