

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: 1700 BROADWAY SUITE 650
City: DENVER State: CO Zip: 80290
6. Contact Name: Shannon Hartnett Phone: (303)830-9893 Fax: (866)522-1673
Email: shartnett@gwogco.com
7. Well Name: New Cache FH Well Number: 8-12D
8. Unit Name (if appl): _____ Unit Number: _____
9. Proposed Total Measured Depth: 7066

WELL LOCATION INFORMATION

10. QtrQtr: NWSW Sec: 8 Twp: 6N Rng: 63W Meridian: 6
Latitude: 40.499528 Longitude: -104.467906
Footage at Surface: 2104 feet FNL/FSL 668 feet FEL/FWL FWL
11. Field Name: Wattenberg Field Number: 90750
12. Ground Elevation: 4693 13. County: WELD

14. GPS Data:
Date of Measurement: 10/19/2012 PDOP Reading: 1.5 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 2646 FNL 1317 FWL 2646 FNL 1317 FWL
Bottom Hole: FNL/FSL 2646 FNL 1317 FWL 2646 FNL 1317 FWL
Sec: 8 Twp: 6N Rng: 63W Sec: 8 Twp: 6N 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: 1522 ft
18. Distance to nearest property line: 668 ft 19. Distance to nearest well permitted/completed in the same formation(BHL): 650 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-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):

See attached map

25. Distance to Nearest Mineral Lease Line: 0 ft 26. Total Acres in Lease: 480

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	540	64	540	0
1ST	7+7/8	4+1/2	11.6	0	7,066	600	7,066	3,357

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

33. Comments Conductor casing will not be set. Production casing will be set at a minimum of 200' above the Niobrara. Waiver of 30 day notice for COGCC Rules 305 and 306 are on page 4 of the SUA in addition to the attached signed waiver. Proposed spacing unit S1/2NW1/4 & N1/2SW1/4 of Section 8-T6N-R63W

34. Location ID: 306310

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 Hatnett

Title: Permitting Agent Date: 1/15/2013 Email: sharnett@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: 3/14/2013

API NUMBER

05 123 36969 00

Permit Number: _____ Expiration Date: 3/13/2015

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 per Rule 318A.

- 1) Provide 48 hour notice of spud via electronic Form 42.
- 2) Provide cement coverage from TD to a minimum of 200' above Niobrara. Verify coverage with cement bond log.
- 3) Run and submit Directional Survey from TD to base of surface casing. Ensure that the wellbore complies with setback requirements in commission orders or rules prior to producing the well.

Applicable Policies and Notices to Operators

Notice Concerning Operating Requirements for Wildlife Protection.

Attachment Check List

Att Doc Num	Name
2233901	SURFACE AGRMT/SURETY
2485377	SURFACE CASING CHECK
400360240	FORM 2 SUBMITTED
400367841	WELL LOCATION PLAT
400367844	DEVIATED DRILLING PLAN
400367846	PROPOSED SPACING UNIT
400367853	MINERAL LEASE MAP
400367872	30 DAY NOTICE LETTER
400373054	DIRECTIONAL DATA

Total Attach: 9 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Final Review Completed. No LGD or public comment received.	3/14/2013 7:03:15 AM
Permit	Directional wellbore has a TOP and BHL of 0' to the lease line; distance to unit boundary is 1318'.	3/14/2013 5:57:00 AM
Permit	Per operator corrected distance to nearest utility, SHL, removed exception attachments, distance to property line, distance to nearest wellbore, distance to mineral lease, input proposed spacing order, and attached SUA.	3/14/2013 5:54:11 AM
Permit	Requested missing information again.	3/5/2013 10:16:21 AM
Permit	Requested distance to nearest utility, corrected SHL, distance to lease line, distance to nearest wellbore, proposed spacing unit description, and information on request for exception location when well is in window. Initial review complete.	1/23/2013 7:59:49 AM
Permit	Uploaded directional template using data provided by operator.	1/22/2013 12:02:27 PM
Permit	This form passes completeness.	1/16/2013 10:28:25 AM

Total: 7 comment(s)

BMP

<u>Type</u>	<u>Comment</u>
Drilling/Completion Operations	<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. & 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)