

FORM  
2  
Rev  
08/13

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:  
400615398

APPLICATION FOR PERMIT TO:

Drill       Deepen       Re-enter       Recomplete and Operate

Date Received:  
06/06/2014

TYPE OF WELL    OIL     GAS     COALBED     OTHER \_\_\_\_\_  
ZONE TYPE      SINGLE ZONE     MULTIPLE ZONES     COMMINGLE ZONES

Refiling   
Sidetrack

Well Name: DeTienne FD      Well Number: 16-022HC  
Name of Operator: GREAT WESTERN OPERATING COMPANY LLC      COGCC Operator Number: 10110  
Address: 1801 BROADWAY #500  
City: DENVER      State: CO      Zip: 80202  
Contact Name: Callie Fiddes      Phone: (303)398-0550      Fax: ( )  
Email: regulatorypermitting@gwogco.com

RECLAMATION FINANCIAL ASSURANCE

Plugging and Abandonment Bond Surety ID: 20090080

WELL LOCATION INFORMATION

QtrQtr: NWSW      Sec: 10      Twp: 6N      Rng: 67W      Meridian: 6  
Latitude: 40.499319      Longitude: -104.886808

Footage at Surface: 1894 feet      FNL/FSL      FEL/FWL  
FSL      580 feet      FWL

Field Name: WATTENBERG      Field Number: 90750  
Ground Elevation: 4836.3      County: WELD

GPS Data:  
Date of Measurement: 05/15/2014    PDOP Reading: 2.1    Instrument Operator's Name: Loren Shanks

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  
470      FNL      460      FEL      470      FNL      470      FWL  
Sec: 16      Twp: 6N      Rng: 67W      Sec: 16      Twp: 6N      Rng: 67W

LOCATION SURFACE & MINERALS & RIGHT TO CONSTRUCT

Surface Ownership:  Fee     State     Federal     Indian

The Surface Owner is:  is the mineral owner beneath the location.  
(check all that apply)  is committed to an Oil and Gas Lease.  
 has signed the Oil and Gas Lease.  
 is the applicant.

The Mineral Owner beneath this Oil and Gas Location is:  Fee     State     Federal     Indian

The Minerals beneath this Oil and Gas Location will be developed by this Well: No

The right to construct the Oil and Gas Location is granted by: Surface Use Agreement

Surface damage assurance if no agreement is in place: \_\_\_\_\_ Surface Surety ID: \_\_\_\_\_

### LEASE INFORMATION

Using standard QtrQtr, Sec, Twp, Rng format, describe one entire mineral lease that will be produced by this well (Describe lease beneath surface location if produced. Attach separate description page or map if necessary.)

See attached map

Total Acres in Described Lease: 270 Described Mineral Lease is:  Fee  State  Federal  Indian

Federal or State Lease # \_\_\_\_\_

Distance from Completed Portion of Wellbore to Nearest Lease Line of described lease: 460 Feet

### CULTURAL DISTANCE INFORMATION

Distance to nearest:

Building: 810 Feet

Building Unit: 918 Feet

High Occupancy Building Unit: 5280 Feet

Designated Outside Activity Area: 5280 Feet

Public Road: 574 Feet

Above Ground Utility: 552 Feet

Railroad: 5280 Feet

Property Line: 580 Feet

#### INSTRUCTIONS:

- All measurements shall be provided from center of the Proposed Well to nearest of each cultural feature as described in Rule 303.a.(5).
- Enter 5280 for distance greater than 1 mile.
- Building - nearest building of any type. If nearest Building is a Building Unit, enter same distance for both.
- Building Unit, High Occupancy Building Unit, and Designated Outside Activity Area - as defined in 100-Series Rules.

### DESIGNATED SETBACK LOCATION INFORMATION

- Check all that apply. This location is within a:
- Buffer Zone
  - Exception Zone
  - Urban Mitigation Area

- Buffer Zone – as described in Rule 604.a.(2), within 1,000' of a Building Unit
- Exception Zone - as described in Rule 604.a.(1), within 500' of a Building Unit.
- Urban Mitigation Area - as defined in 100-Series Rules.

Pre-application Notifications (required if location is within 1,000 feet of a building unit):

Date of Rule 305.a.(1) Urban Mitigation Area Notification to Local Government: \_\_\_\_\_

Date of Rule 305.a.(2) Buffer Zone Notification to Building Unit Owners: 05/29/2014

### SPACING and UNIT INFORMATION

Distance from Completed Portion of Wellbore to Nearest Wellbore Permitted or Completed in the same formation: 1103 Feet

Distance from Completed Portion of Wellbore to Nearest Unit Boundary 460 Feet (Enter 5280 for distance greater than 1 mile.)

Federal or State Unit Name (if appl): \_\_\_\_\_ Unit Number: \_\_\_\_\_

### SPACING & FORMATIONS COMMENTS

Section 16 - All

DeTienne FD 16-102HC is nearest penetrating formation

### OBJECTIVE FORMATIONS

Objective Formation(s)	Formation Code	Spacing Order Number(s)	Unit Acreage Assigned to Well	Unit Configuration (N/2, SE/4, etc.)
CODELL	CODL	407-741	640	

### DRILLING PROGRAM

Proposed Total Measured Depth: 12249 Feet

Distance to nearest permitted or existing wellbore penetrating objective formation: 1103 Feet (Including plugged wells)

Will a closed-loop drilling system be used? Yes

Is H2S gas reasonably expected to be encountered during drilling operations at concentrations greater than or equal to 100 ppm? No (If Yes, attach an H2S Drilling Operations Plan)



## OTHER LOCATION EXCEPTIONS

Check all that apply:

- Rule 318.c. Exception Location from Rule or Spacing Order Number \_\_\_\_\_
- Rule 603.a.(2) Exception Location (Property Line Setback).

ALL exceptions and variances require attached Request Letter(s). Refer to applicable rule for additional required attachments (e.g. waivers, certifications, SUAs).

## OPERATOR COMMENTS AND SUBMITTAL

Comments Please see language in our Memo Agreement that covers necessity for exception location and twinning waivers. The surface owner did opt out of receiving further communications. Opt out request attached. Waivers from surface owners waiving 30 day wait period from pre-application notifications also attached.

This application is in a Comprehensive Drilling Plan \_\_\_\_\_ CDP #: \_\_\_\_\_

Location ID: 429507

Is this application being submitted with an Oil and Gas Location Assessment application? Yes

I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete.

Signed: \_\_\_\_\_ Print Name: Callie Fiddes

Title: Regulatory Tech Date: 6/6/2014 Email: regulatorypermitting@gwogco.c

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:  Director of COGCC Date: 6/19/2014

Expiration Date: 06/18/2016

**API NUMBER**

05 123 39630 00

### Conditions Of Approval

**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.**

#### COA Type

#### Description

	Operator shall comply with Buffer Zone Move-In, Rig-Up Notice Policy dated 12-16-2013.
	1) Submit Form 42 electronically to COGCC 48 hours prior to MIRU. 2) Comply with Rule 317.i and provide cement coverage from end of 7" casing to a minimum of 200' above Niobrara. Verify coverage with cement bond log. 3) Comply with Rule 321. 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.

## Best Management Practices

<b>No</b>	<b>BMP/COA Type</b>	<b>Description</b>
1	General Housekeeping	General 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.
2	Drilling/Completion Operations	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.
3	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

Total: 3 comment(s)

### Applicable Policies and Notices to Operators

Notice Concerning Operating Requirements for Wildlife Protection.

### Attachment Check List

<b>Att Doc Num</b>	<b>Name</b>
1668359	EXPEDITED APPROVAL REQUEST
2167804	MINERAL LEASE MAP
2167806	EXCEPTION LOC REQUEST
400615398	FORM 2 SUBMITTED
400616215	DIRECTIONAL DATA
400616218	DEVIATED DRILLING PLAN
400616273	OffsetWellEvaluations Data
400618571	WELL LOCATION PLAT
400618644	EXCEPTION LOC REQUEST
400618663	SURFACE AGRMT/SURETY
400619306	30 DAY NOTICE LETTER
400622346	WAIVERS
400622353	WAIVERS
400622354	WAIVERS
400622355	WAIVERS
400622599	WAIVERS

Total Attach: 16 Files

## General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Weld County LGD Tom Parko waived the 20 day comment period in doc Doc # 2141442 which is attached tot he 2A. Waiver dated and received 6/18/14 and therefore expedited approval will take place on 6/19/14. Waived LGD Comment for John Holden Town of Severence who was noticed but approval not required. Corrected question, the minerals beneath this Oil and Gas Location will Not be developed by this 1 well as per opr. Final review complete.	6/18/2014 4:55:04 PM
Engineer	Offset wells evaluated.	6/18/2014 4:50:39 PM
Permit	Expedited Approval Request attached to document. Blank Exception Loc Request is an error in the attachment list and internal issues prevent it being deleted at this time.	6/17/2014 7:34:21 AM
Permit	Attached corrected mineral lease map as per opr.	6/16/2014 8:12:33 AM
Permit	Corrected distance to nearest lease line from 580' to 460' as per opr. Corrected total acres in lease form 160 to 270 as per opr. Deleted invalid proposed spacing unit as per opr. Changed names of attachments "Other" to Waivers, as per opr.	6/12/2014 9:20:30 AM
Permit	Sec is spaced by 407-741. (7 HZ Wells in 640) Proposed spacing unit is incorrect. S/B 160 not be present with the Spacing Order 407-741 Mineral Lease Map doesn't cover any production Opr notified.	6/11/2014 2:27:59 PM
Permit	Passed completeness.	3/9/2014 9:56:24 AM

Total: 7 comment(s)