

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:  
400537427

APPLICATION FOR PERMIT TO:

Drill       Deepen       Re-enter       Recomplete and Operate

Date Received:  
01/09/2014

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

Refiling   
Sidetrack

Well Name: WIRKNER-VANCE      Well Number: 29C-36HZX  
Name of Operator: KERR-MCGEE OIL & GAS ONSHORE LP      COGCC Operator Number: 47120  
Address: P O BOX 173779  
City: DENVER      State: CO      Zip: 80217-3779  
Contact Name: Cheryl Light      Phone: (720)929-6461      Fax: (720)929-7461  
Email: cheryl.light@anadarko.com

RECLAMATION FINANCIAL ASSURANCE

Plugging and Abandonment Bond Surety ID: 20010124

WELL LOCATION INFORMATION

QtrQtr: SWSW      Sec: 36      Twp: 3N      Rng: 67W      Meridian: 6  
Latitude: 40.175436      Longitude: -104.845268

Footage at Surface:      FNL/FSL      FEL/FWL  
455 feet      FSL      849 feet      FWL

Field Name: WATTENBERG      Field Number: 90750

Ground Elevation: 4822      County: WELD

GPS Data:  
Date of Measurement: 07/31/2013    PDOP Reading: 1.3    Instrument Operator's Name: BEN HARDENBERGH

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  
747    FSL      979      FWL      460    FNL      1085    FWL  
Sec: 36    Twp: 3N    Rng: 67W      Sec: 36    Twp: 3N    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:    Yes

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 lease description(s).

Total Acres in Described Lease: 320 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: 0 Feet

**CULTURAL DISTANCE INFORMATION**

Distance to nearest:

Building: 928 Feet

Building Unit: 928 Feet

High Occupancy Building Unit: 5280 Feet

Designated Outside Activity Area: 5280 Feet

Public Road: 2074 Feet

Above Ground Utility: 250 Feet

Railroad: 5280 Feet

Property Line: 250 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: \_\_\_\_\_

**SPACING and UNIT INFORMATION**

Distance from Completed Portion of Wellbore to Nearest Wellbore Permitted or Completed in the same formation: 79 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**

Unit Configuration: 3N67W36: W/2

**OBJECTIVE FORMATIONS**

Objective Formation(s)	Formation Code	Spacing Order Number(s)	Unit Acreage Assigned to Well	Unit Configuration (N/2, SE/4, etc.)
NIOBRARA	NBRR		320	GWA

**DRILLING PROGRAM**

Proposed Total Measured Depth: 11875 Feet

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

Will a closed-loop drilling system be used? Yes

Is H<sub>2</sub>S gas reasonably expected to be encountered during drilling operations at concentrations greater than or equal to 100 ppm? No (If Yes, attach an H<sub>2</sub>S Drilling Operations Plan)

Will salt sections be encountered during drilling? No

Will salt based (>15,000 ppm Cl) drilling fluids be used? No

Will oil based drilling fluids be used? No

BOP Equipment Type:  Annular Preventor  Double Ram  Rotating Head  None

### GROUNDWATER BASELINE SAMPLING AND MONITORING AND WATER WELL SAMPLING

Water well sampling required per Rule 318A

### DRILLING WASTE MANAGEMENT PROGRAM

Drilling Fluids Disposal: OFFSITE Drilling Fluids Disposal Methods: Land application

Cuttings Disposal: OFFSITE Cuttings Disposal Method: Beneficial reuse

Other Disposal Description:

Beneficial reuse or land application plan submitted? Yes

Reuse Facility ID: \_\_\_\_\_ or Document Number: 149021

### CASING PROGRAM

Casing Type	Size of Hole	Size of Casing	Wt/Ft	Csg/Liner Top	Setting Depth	Sacks Cmt	Cmt Btm	Cmt Top
SURF	13+1/2	9+5/8	36	0	1161	440	1161	0
1ST	8+3/4	7+0/0	26	0	7765	820	7765	0
1ST LINER	6+1/8	4+1/2	11.6	6747	11875			

Conductor Casing is NOT planned

### DESIGNATED SETBACK LOCATION EXCEPTIONS

Check all that apply:

- Rule 604.a.(1)A. Exception Zone (within 500' of Building Unit)
- Rule 604.b.(1)A. Exception Location (existing or approved Oil & Gas Location now within a Designated Setback as a result of Rule 604.a.)
- Rule 604.b.(1)B. Exception Location (existing or approved Oil & Gas Location is within a Designated Setback due to Building Unit construction after Location approval)
- Rule 604.b.(2) Exception Location (SUA or site-specific development plan executed on or before August 1, 2013)
- Rule 604.b.(3) Exception Location (Building Units constructed after August 1, 2013 within setback per an SUA or site-specific development plan)

### GREATER WATTENBERG AREA LOCATION EXCEPTIONS

Check all that apply:

- Rule 318A.a. Exception Location (GWA Windows).
- Rule 318A.c. Exception Location (GWA Twinning).

### RULE 502.b VARIANCE REQUEST

Rule 502.b. Variance Request from COGCC Rule or Spacing Order Number \_\_\_\_\_

### 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 UNPLANNED SIDETRACK - VERBAL GIVEN BY DIANA BURN ON 01/07/2014 AT 7:18 PM

The situation is we ran our 7" casing and cemented it in place at 7765' MD as planned. We started drilling the lateral and drilled to a depth of 7966' MD when we encountered drilling problems. At this point we pulled out of the hole and found that we backed off the motor at the adjustable housing and left the bit, bearing house, and the rotor in the hole. Fish length is ~30'. Due to the uncertainty of the rotors fishability, we are going to make one fishing attempt then look to cement the lateral into the 7" shoe and do a sidetrack off of the cement plug. I will detail below as much data as I have at this time. We are looking for the OK to proceed with a sidetrack if we are unable to recover the fish.

Total depth of well 7966' reached, planned depth is 11919'  
 9 5/8" Surface casing set @ 1019' MD  
 7" intermediate casing set @ 7765' MD 7348' TVD  
 Fish is bit, bearing house, and rotor  
 Plug will be 350' length from 7966' MD to 7666' MD (inside 7" casing)  
 Cement will be type H 17.5 # neat cement. More details to follow when I get cement results  
 Attempt to start side track at 7770'. We will attempt to sidetrack up and to the right  
 Objective formation will stay at the Codell, we will not change formation

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

Location ID: 432052

Is this application being submitted with an Oil and Gas Location Assessment application? No

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

Signed: \_\_\_\_\_ Print Name: CHERYL LIGHT

Title: SR. REGULATORY ANALYST Date: 1/9/2014 Email: DJREGULATORY@ANADARK

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: 1/26/2014  
 Expiration Date: 01/25/2016

<b>API NUMBER</b>
05 123 37886 01

**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

**Best Management Practices**

No BMP/COA Type	Description

**Applicable Policies and Notices to Operators**

- Notice Concerning Operating Requirements for Wildlife Protection.
- Policy for Bradenhead Monitoring During Hydraulic Fracturing Treatments in the Greater Wattenberg Area.

## Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
1695997	WELL LOCATION PLAT
400537427	FORM 2 SUBMITTED
400537461	DIRECTIONAL DATA
400537464	DEVIATED DRILLING PLAN
400537467	WELLBORE DIAGRAM
400537562	CORRESPONDENCE

Total Attach: 6 Files

## General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Final Review Completed. No LGD or public comment received.	1/16/2014 2:32:06 PM
Permit	The BHL did move 100' East to 1085 FWL. Received and attached corrected Well Location Plat. ok to pass. Removed portion of Operator Comments that indicated no change in BHL.	1/13/2014 10:05:25 AM
Permit	This is a Sidetrack to 123-37886 Wirkner Vance 29C-36HZ. Checking on BHL.	1/13/2014 9:06:46 AM
Permit	This form has passed completeness.	1/13/2014 8:49:16 AM
Permit	Returned to draft for email attachment.	1/9/2014 4:26:41 PM

Total: 5 comment(s)