

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:  
400526800

APPLICATION FOR PERMIT TO:

Drill       Deepen       Re-enter       Recomplete and Operate

Date Received:  
12/17/2013

TYPE OF WELL    OIL     GAS     COALBED     OTHER \_\_\_\_\_

Refilling

ZONE TYPE    SINGLE ZONE     MULTIPLE ZONES     COMMINGLE ZONES

Sidetrack

Well Name: Lincoln      Well Number: 1748-11-11-H  
Name of Operator: ANADARKO E&P ONSHORE LLC      COGCC Operator Number: 2800  
Address: PO BOX 173779  
City: DENVER      State: CO      Zip: 80217-3779  
Contact Name: Kenny Trueax      Phone: (720)929-6383      Fax: ( )  
Email: kenny.trueax@anadarko.com

RECLAMATION FINANCIAL ASSURANCE

Plugging and Abandonment Bond Surety ID: 20030041

WELL LOCATION INFORMATION

QtrQtr: SWSW      Sec: 11      Twp: 17S      Rng: 48W      Meridian: 6  
Latitude: 38.586836      Longitude: -102.765358

Footage at Surface:      FNL/FSL      FEL/FWL  
600 feet      FSL      700 feet      FWL

Field Name: WILDCAT      Field Number: 99999

Ground Elevation: 4233      County: KIOWA

GPS Data:  
Date of Measurement: 07/17/2013    PDOP Reading: 2.0    Instrument Operator's Name: Rob Wilson

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  
1123    FSL    774    FWL    1186    FNL    692    FWL  
Sec: 11    Twp: 17S    Rng: 48W    Sec: 11    Twp: 17S    Rng: 48W

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.)

Minerals in the entire W/2 Sec. 11, T17N-R48W Kiowa County, CO are owned by operator (Anadarko). Amount of acres attributed to this well is approximately 480 total acres.

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: 692 Feet

**CULTURAL DISTANCE INFORMATION**

Distance to nearest:

Building: 5280 Feet  
 Building Unit: 5280 Feet  
 High Occupancy Building Unit: 5280 Feet  
 Designated Outside Activity Area: 5280 Feet  
 Public Road: 576 Feet  
 Above Ground Utility: 545 Feet  
 Railroad: 5280 Feet  
 Property Line: 600 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: 2640 Feet

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

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

**SPACING & FORMATIONS COMMENTS**

Distance to another well penetrating the same formation is a dry hole 136 feet from the wellbore API: 05-061-06237. Please refer to offset well evaluation.

**OBJECTIVE FORMATIONS**

Objective Formation(s)	Formation Code	Spacing Order Number(s)	Unit Acreage Assigned to Well	Unit Configuration (N/2, SE/4, etc.)
SPERGEN	SPGN			

**DRILLING PROGRAM**

Proposed Total Measured Depth: 8359 Feet

Distance to nearest permitted or existing wellbore penetrating objective formation: 526 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 H2S 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 609

## DRILLING WASTE MANAGEMENT PROGRAM

Drilling Fluids Disposal: OFFSITE Drilling Fluids Disposal Methods: Commercial Disposal

Cuttings Disposal: ONSITE Cuttings Disposal Method: Beneficial reuse

Other Disposal Description:

Cuttings will be spread on pad surface or disposed of per rules 907 to 910. Drilling mud will be reused or sent to commercial disposal and adhere to rules 907 to 910. Please see the Waste Management Plan with 02A.

Beneficial reuse or land application plan submitted? Yes

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

## CASING PROGRAM

Casing Type	Size of Hole	Size of Casing	Wt/Ft	Csg/Liner Top	Setting Depth	Sacks Cmt	Cmt Btm	Cmt Top
CONDUCTOR	24	16	42.09	0	85	5	85	0
SURF	12+1/4	9+5/8	36	0	794	150	794	0
1ST	8+3/4	7	26	0	5325	440	5325	0
1ST LINER	6+1/8	4+1/2	11.6	0	8359			

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

Lincoln 1748-11-11HX  
API: 05-061-06890-01

I. When drilling ahead at approx 70 degrees we packed off and pressured up. After multiples attempts at continually working the string up and down and round and round a twist off was initiated above the MWD tools in the first joint of drill pipe. This all occurred late Sunday/Early Monday morning. Fishing attempts have been occurring since Tuesday AM and they have been unsuccessful mostly hitting bridges at 4,900' while the fish top is at 5,147'.

II. TMD = 5340'

III. 9.625" 36 ppf J-55 at 794' MD

IV. Fish includes bit, drilling motor, EM Tools, Gamma Ray package, an exciter (agitator) and a crossover. The EM MWD is housed in two non magnetic collars. Top of Fish = 5147' and BOF = 5280' MD.

V. We will set a plug through the whipstock with tailpipe hung approx. 500' below the whipstock set depth of 4,200'. The plug will fill from 4,700' MD to 4,200' MD. Volume will be OH volume + 20% from 4,700' to 4,100' (100' above whipstock) for a total volume of 54 bbls.

VI. Cement will be class G, 12.5 ppg, 2.17 cu-ft/sk yield cement

VII. 4,200' MD

VIII. Same - Mississippi Lime is target formation for the hz wellbore

IX. Same

The plugging and sidetracking is most likely to occur on Friday night, 12/13 and over the weekend.

Thank you for your quick response to this request and please let me know if you have any questions.

\*Please see as-drilled notes highlighted in yellow in attached wellbore diagram for casing, plugs and KOP for sidetrack.

This application is in a Comprehensive Drilling Plan No CDP #: \_\_\_\_\_

Location ID: 434581

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: Kenny Trueax

Title: Sr. Regulatory Analyst Date: 12/17/2013 Email: kenny.trueax@anadarko.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:  Director of COGCC Date: 2/23/2014

Expiration Date: 02/22/2016

API NUMBER

05 061 06890 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

	Open hole resistivity and gamma logs shall be run to describe the stratigraphy of the entire well bore and to adequately verify the setting depth of surface casing and aquifer coverage. On a multi-well pad, these open hole logs are only required on one of the first wells drilled on the pad and the Drilling Completion Report - Form 5 for every well on the pad shall identify which well was logged.
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## Best Management Practices

### No BMP/COA Type

### Description

1	Planning	The location is in a rural area with no occupied buildings within a mile of the well pad. The closest occupied dwelling is 1.3 miles away in the NWSW of Sec. 10 17S-48W to the West.
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Total: 1 comment(s)

## Attachment Check List

### Att Doc Num

### Name

2518829	DRILLING PLAN
2518943	WELL LOCATION PLAT
2518944	WELL LOCATION PLAT
2518948	CORRESPONDENCE
400526800	FORM 2 SUBMITTED
400535289	DEVIATED DRILLING PLAN
400535292	WELLBORE DIAGRAM
400537934	DIRECTIONAL DATA

Total Attach: 8 Files

## General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Final review completed; no LGD or public comment received.	2/21/2014 5:43:07 AM
Permit	Lease description written incorrectly. Lease description revised by operator. 2/20/2014	2/14/2014 11:48:59 AM
Permit	This was an emergency sidetrack. Verbal approval attached.	2/11/2014 8:49:39 AM
Permit	Operator provided well location plats. Attached.	2/10/2014 9:33:27 AM
Permit	Bottom hole location was revised according to the deviated drilling plan. Footage location of the Bottom Hole changed to coincide with the drilling plan. Notified operator and requested a new well location plat needs to be done.	2/3/2014 1:42:29 PM
Permit	Notification went to Cheyenne county instead of Kiowa. The LGD's have been notified.	1/10/2014 1:03:54 PM
Permit	Passed completeness.	1/6/2014 11:07:18 AM
Permit	Returned to draft: Submit deviated drilling plan. Place API number in the directional data template with sidetrack designation(01) if this is the new plan. The data needs to be imported into the tool so it will plot. Requires a wellbore diagram including all casing & plugs & KOP for sidetrack wellbore. Convert engineers verbal approval email to a PDF and attach to the form 2.	12/19/2013 8:36:58 AM

Total: 8 comment(s)