

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

TYPE OF WELL OIL ☒ GAS ☐ COALBED ☐ OTHER _____

Refilling ☐

ZONE TYPE SINGLE ZONE ☒ MULTIPLE ZONES ☐ COMMINGLE ZONES ☐

Sidetrack ☒

Date Received:

12/17/2013

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: 600 feet FNL/FSL FSL 700 feet FEL/FWL 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 FSL 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 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)

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)