

FORM
2

Rev
12/05

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:

400258582

Date Received:

03/20/2012

PluggingBond SuretyID

20030041

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: ANADARKO E&P COMPANY LP

4. COGCC Operator Number: 2800

5. Address: PO BOX 173779

City: DENVER State: CO Zip: 80217

6. Contact Name: CINDY VUE Phone: (720)929-6832 Fax: (720)929-7832

Email: CINDY.VUE@ANADARKO.COM

7. Well Name: HOULIHAN Well Number: 4-8H

8. Unit Name (if appl): _____ Unit Number: _____

9. Proposed Total Measured Depth: 12066

WELL LOCATION INFORMATION

10. QtrQtr: NWNW Sec: 15 Twp: 4S Rng: 64W Meridian: 6

Latitude: 39.708210 Longitude: -104.543868

Footage at Surface: 630 feet FNL 600 feet FWL

11. Field Name: WILDCAT Field Number: 99999

12. Ground Elevation: 5633 13. County: ARAPAHOE

14. GPS Data:

Date of Measurement: 09/15/2011 PDOP Reading: 2.1 Instrument Operator's Name: CHRIS BOUB

15. 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
1675 FNL 570 FWL 1630 FNL 460 FEL
Sec: 15 Twp: 4S Rng: 64W Sec: 15 Twp: 4S Rng: 64W

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: 658 ft

18. Distance to nearest property line: 600 ft 19. Distance to nearest well permitted/completed in the same formation(BHL): 970 ft

20. 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	NBRR	535-98		

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#: 20030042

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):
 Please see attached Oil and Gas Lease.

25. Distance to Nearest Mineral Lease Line: 460 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	13+1/2	9+5/8	36.0	0	1,870	1,350	1,870	0
1ST	8+3/4	7	26.0	0	7,963	700	7,963	0
1ST LINER	6+1/8	4+1/2	11.6	6892	12,066			

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

33. Comments No conductor casing will be used.

34. Location ID: _____

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: CINDY VUE

Title: Regulatory Analyst II Date: 3/20/2012 Email: DJRegulatory@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: 6/22/2012

API NUMBER Permit Number: _____ Expiration Date: 6/21/2014

05 005 07184 00

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 will run open hole logs into the surface casing on the first well drilled on this pad, either this well or one of the two other wells on the pad.

- 1) Note surface casing setting depth change from 1820' to 1870'. Increase cement coverage accordingly.
- 2) Submit Form 42 electronically to COGCC 48 hours prior to MIRU.
- 3) Comply with Rule 317.i and provide cement coverage from end of 7" production casing to a minimum of 200' above Niobrara. Verify coverage with cement bond log.
- 4) Run and submit Directional Survey from TD to base of surface casing. The operator shall comply with Rule 321, and it shall be the operator's responsibility to ensure that the wellbore complies with setback requirements in commission orders or rules prior to producing the well.

Attachment Check List

Att Doc Num	Name
1771634	SURFACE CASING CHECK
400258582	FORM 2 SUBMITTED
400258589	DEVIATED DRILLING PLAN
400258590	PLAT
400258591	TOPO MAP
400258592	OIL & GAS LEASE
400260304	OTHER
400260309	DIRECTIONAL DATA
400261533	30 DAY NOTICE LETTER

Total Attach: 9 Files

General Comments

User Group	Comment	Comment Date
OGLA	Arapahoe County LGD comment has been addressed as detailed in the correspondence attached to the Form 2A document number 400258538 - 2086107.	6/22/2012 10:43:07 AM
Permit	Final review completed; no public comment received. LGD comments adressed.	6/22/2012 9:08:54 AM
LGD	<p>Arapahoe County has the following response:</p> <p>COGCC please add the following Conditions of Approval:</p> <ol style="list-style-type: none">1. Have the oil and gas operator communicate their plans for this oil and gas well a month before construction commences on this well pad to all property owners within two miles of the well pad regarding timing, safety, adherance to regulatons and a telephone number for comments and complaints.2. Use a closed-loop system because this well pad is close to Box Elder Creek. <p>Also please include the following comments:</p> <ol style="list-style-type: none">1. The applicant will either need to obtain Board of County Commissioner approval for a Use by Special Review or execute a Memorandum of Understanding with Arapahoe County prior to construction of the well pad and drilling operations.2. A GESC(Grading, Erosion and Sedimentation Control) plan and report must be submitted for each oil well site.Collateral to guarantee the BMPs must be provided prior to the issuance of the GESC permit.The GESC permit must be issued prior to any grading related to the oil well development.3. A truck traffic report must be submitted to the County before issuance of an access permit.The report must specify the volume, type and size of truck traffic used in the drilling and production of the well.Included in this report the Applicant must provide a detailed map depicting all County roads intended to be used by truck traffic to ingress and egress the well site.The roadway condition and existing traffic volumes of each of the roadways must be specified in the report.Improvements to any County road along the proposed route may require an agreement with the Operator prior to issuance of the access permit.Any damage to an Arapahoe County road resulting from the Oil Well operation will be the responsibility of the Applicant.4. An oversize moving permit is required for transporting dirling rigs and or any other oversize and overweight vehicles on any County roadways.5. In the event any encroachment of a FEMA or County designated floodplain, a floodplain development permit will be required.Prior to issuance of this permit an engineering analysis must be submitted evaluating the impact of this encroachment on the 100-year floodplain.	4/6/2012 10:47:57 AM
Permit	Laterals are 970 apart which agrees with the Order.	3/21/2012 6:27:08 AM
Permit	Revised unit arceage to 640 which is mandated by the order.	3/21/2012 6:25:44 AM

Total: 5 comment(s)

BMP

<u>Type</u>	<u>Comment</u>

Total: 0 comment(s)