

FORM
2

Rev
12/05

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80205 Phone: (303) 894-2100 Fax: (303) 894-2109



Document Number:

400275362

Date Received:

04/23/2012

PluggingBond SuretyID

20100017

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: ENCANA OIL & GAS (USA) INC

4. COGCC Operator Number: 100185

5. Address: 370 17TH ST STE 1700

City: DENVER State: CO Zip: 80202-5632

6. Contact Name: JENNIFER LIND Phone: (720)876-5890 Fax: (720)876-6890

Email: JENNIFER.LIND@ENCANA.COM

7. Well Name: DAVIS Well Number: 2B-9H

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

9. Proposed Total Measured Depth: 14546

WELL LOCATION INFORMATION

10. QtrQtr: SWNW Sec: 9 Twp: 2N Rng: 66W Meridian: 6

Latitude: 40.154440 Longitude: -104.789700

Footage at Surface: 1967 feet FNL 554 feet FWL

11. Field Name: WATTENBERG Field Number: 90750

12. Ground Elevation: 4912 13. County: WELD

14. GPS Data:

Date of Measurement: 12/08/2011 PDOP Reading: 1.6 Instrument Operator's Name: BURKE

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
2067 FNL 1665 FWL 460 FNL 1650 FWL
Sec: 9 Twp: 2N Rng: 66W Sec: 4 Twp: 2N Rng: 66W

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: 653 ft

18. Distance to nearest property line: 554 ft 19. Distance to nearest well permitted/completed in the same formation(BHL): 34 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	407	480	GWA

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#:

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):

SEE ATTACHED MAP.

25. Distance to Nearest Mineral Lease Line: 460 ft

26. Total Acres in Lease: 2320

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
CONDUCTOR	22	16	30	0	80	80	80	0
SURF	12+1/4	9+5/8	40	0	800	198	800	0
1ST	8+3/4	7	26	0	7,696	942	7,696	500
2ND	6+1/8	4+1/2	13.5	0	14,546	588	14,546	7,396

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

33. Comments THIS PERMIT IS INTENDED TO REPLACE THE ORIGINAL DAVIS 2B-9H APD (API # 05-123-35266-00). THE ORIGINAL SURFACE LOCATION OF THE DAVIS 2A-9H (API # 05-123-34752) HAS BEEN PLUGGED AND ABANDONED DUE TO PROBLEMS ENCOUNTERED DURING THE DRILLING OF THE SURFACE SECTION OF THE WELL. THE DAVIS 2A-9H HAS BEEN SLID EAST TO THE PERMITTED DAVIS 2B-9H SURFACE LOCATION SO DRILLING COULD BE CONTINUED. THE NEW WELL IN THE 2B-9H LOCATION HAS BEEN RENAMED THE DAVIS 2A-9H X AND WILL UTILIZE THE API # ORIGINALLY ASSIGNED TO THE DAVIS 2B-9H (API # 05-123-35266-00). THEREFORE, THE DAVIS 2B-9H NOW NEEDS A NEW API NUMBER ASSIGNED. THE SURFACE LOCATION FOR THE DAVIS 2B-9H HAS BEEN SHIFTED EAST 37' OF ITS ORIGINAL LOCATION DUE TO THE SHIFT OF THE DAVIS 2A-9H X. ENCANA ASK THAT THE RULE 305.c. COMMENT PERIOD BE WAIVED SINCE THIS WELL HAS OBTAINED PRIOR APPROVAL WITH NO LGD COMMENTS. PROPOSED SPACING UNIT IS THE NW/4 OF SEC.9-T2N-R66W AND W/2 OF SEC.4-T2N-R66W. ENCANA REQUESTS THE APPROVAL OF A VARIANCE TO RULE 318A.m. AS THE PROPOSED WELLBORE IS PLANNED TO BE CLOSER THAN 150' TO 3 PRODUCING WELLS.

34. Location ID: 330845

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: JENNIFER LIND

Title: REGULATORY ANALYST

Date: 4/23/2012

Email: JENNIFER.LIND@ENCANA.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: 4/24/2012

API NUMBER

05 123 35460 00

Permit Number: _____

Expiration Date: 4/23/2014

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.

- 1) Comply with Rule 317.i and provide cement coverage from the end of the production casing to a minimum of 200' above the Niobrara and from 200' below Sussex to 200' above Sussex. Verify coverage with a cement bond log.
- 2) Comply with Rule 321. Run and submit Directional Survey from the TD to surface. Ensure that the wellbore complies with setback requirements in commission orders or rules prior to producing the well.

Operator must meet Water Well Testing requirements as per amended Rule 318Ae(4)

Attachment Check List

Att Doc Num	Name
400275362	FORM 2 SUBMITTED
400275419	DEVIATED DRILLING PLAN
400275420	DIRECTIONAL DATA
400275424	MINERAL LEASE MAP
400275428	VARIANCE REQUEST
400275429	OTHER
400275440	TOPO MAP
400275456	WELL LOCATION PLAT
400275458	PROPOSED SPACING UNIT

Total Attach: 9 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	This is a new form 2 due to a Rig Skid and lost hole. LGD & public comment waived. Added BMP for anti-collision with opr approval. Opr has attached a variancerequest to Rule 318A.m. Final review complete.	4/24/2012 9:32:04 AM

Total: 1 comment(s)

BMP

<u>Type</u>	<u>Comment</u>
Drilling/Completion Operations	<p>Best Management Practice for a Horizontal Wellbore Fracturing Stimulation</p> <ol style="list-style-type: none">1. At least seven (7) days prior to fracture stimulation, the operator is to notify all operators of non-operated wells within 300 feet of the wellbore to be fracture stimulated of the anticipated date stimulation date and the recommended best management practice to shut-in all wells within 300' of the stimulated wellbore completed in the same formation.2. The operator will monitor the bradenhead pressure of all wells within 300 feet of the well to be fracture stimulated.3. Bradenhead pressure gauges are to be installed 24 hours prior to stimulation. The gauges are to read at least once during every 24-hour period until 24-hours after stimulation is completed (post flowback). The gauges are to be of the type able to read current pressure and record the maximum encountered pressure in a 24-hour period. The gauge is to be reset between each 24-hour period. The pressures are to be recorded and saved.4. If at any time during stimulation or the 24-hour post-stimulation period, the bradenhead annulus pressure of the treatment well or offset wells increases more than 200 psig, as per Rule 341, the operator of the well being stimulated shall verbally notify the Director as soon as practicable, but no later than twenty-four (24) hours following the incident. Within fifteen (15) days after the occurrence, the operator shall submit a Sundry Notice, Form 4, giving all details, including corrective actions taken. <p>Anti-collision BMP:</p> <p>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 wellpath with its respective error of uncertainty. If current surveys do not exist for the offset wells, Operator may have gyro surveys conducted to verify bottomhole 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.</p>
Drilling/Completion Operations	<p>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 wellpath with its respective error of uncertainty. If current surveys do not exist for the offset wells, Operator may have gyro surveys conducted to verify bottomhole 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.</p>

Total: 2 comment(s)