

**State of Colorado**  
**Oil and Gas Conservation Commission**

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Document Number:

400287899

Date Received:

06/05/2012

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: ECHEVERRIA Well Number: 2A-2H
8. Unit Name (if appl): \_\_\_\_\_ Unit Number: \_\_\_\_\_
9. Proposed Total Measured Depth: 11812

## WELL LOCATION INFORMATION

10. QtrQtr: NENW Sec: 2 Twp: 2N Rng: 67W Meridian: 6  
Latitude: 40.172930 Longitude: -104.861850

			FNL/FSL		FEL/FWL
Footage at Surface:	554	feet	FNL	1430	feet

11. Field Name: WATTENBERG Field Number: 90750  
12. Ground Elevation: 4859 13. County: WELD

- #### 14. GPS Data:

Date of Measurement: 02/29/2012 PDOP Reading: 2.1 Instrument Operator's Name: MCGEHEE

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						
<u>624</u>		<u>FNL</u>		<u>818</u>		<u>FWL</u>		<u>460</u>		<u>FSL</u>		<u>825</u>		<u>FWL</u>			
Sec:	2	Twp:	2N	Rng:	67W	Sec:	2	Twp:	2N	Rng:	67W	Sec:	2	Twp:	2N	Rng:	67W

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: 539 ft

18. Distance to nearest property line: 554 ft      19. Distance to nearest well permitted/completed in the same formation(BHL): 225 ft

## 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		320	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: 0 ft

26. Total Acres in Lease: 320

### 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	7,569	926	7,569	500
2ND	6+1/7	4+1/2	13.5	0	11,812	374	11,812	7,269

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

33. Comments ENCANA REQUESTS THE APPROVAL OF A 318A(I).a.1. AND 318A(I).c.1 EXCEPTION LOCATION AS THE WELL LOCATION FALLS OUTSIDE OF A GWA DRILLING WINDOW AND FURTHER THAN 50' FROM AN EXISTING WELL. WAIVERS AND REQUEST LETTER ARE ATTACHED. ENCANA ALSO REQUESTS THE APPROVAL OF THE OMISSION OF OPEN HOLE LOGS FOR THIS WELL. REQUEST LETTER ATTACHED.

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: JENNIFER LIND

Title: REGULATORY ANALYST Date: 6/5/2012 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: 6/30/2012

API NUMBER

05 123 35811 00

Permit Number: \_\_\_\_\_ Expiration Date: 6/29/2014

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.

) Comply with Rule 317.i and provide cement coverage from TVD to a minimum of 200' above Niobrara. Verify coverage with cement bond log.

3) Comply with Rule 321. Run and submit Directional Survey from TD to base of surface casing. Ensure that the wellbore complies with setback requirements in commission orders or rules prior to producing the well.

Operator shall run an open hole log across the surface casing shoe on the first well drilled from this pad.

### **Attachment Check List**

Att Doc Num	Name
400287899	FORM 2 SUBMITTED
400290873	WELL LOCATION PLAT
400290876	TOPO MAP
400292126	DEVIATED DRILLING PLAN
400292127	DIRECTIONAL DATA
400292128	MINERAL LEASE MAP
400292129	EXCEPTION LOC REQUEST
400292130	OTHER
400292132	EXCEPTION LOC WAIVERS
400292133	PROPOSED SPACING UNIT
400292134	30 DAY NOTICE LETTER

Total Attach: 11 Files

### **General Comments**

<b><u>User Group</u></b>	<b><u>Comment</u></b>	<b><u>Comment Date</u></b>
Permit	Final Review Completed. No LGD or public comment received.	6/27/2012 9:15:47 AM
Permit	Proposed Spacing Unit is W/2 section 2, 2N67W. Changed Spacing config from W/2 to GWA. Ok to pass.	6/13/2012 11:04:34 AM
Permit	Operator requests approval of a Rule 318Aa and Rule 318Ac exception location: Wellhead is to be located outside of a GWA drilling window and will be located more than 50' from an existing well location. Request and waivers attached.	6/13/2012 10:45:48 AM

Total: 3 comment(s)

## BMP

<u>Type</u>	<u>Comment</u>
Drilling/Completion Operations	<p>Best Management Practice for a Horizontal Wellbore Fracturing Stimulation</p> <p>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.</p> <p>2. The operator will monitor the bradenhead pressure of all wells within 300 feet of the well to be fracture stimulated.</p> <p>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.</p> <p>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>
Drilling/Completion Operations	<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>

Total: 2 comment(s)