

State of Colorado
Oil and Gas Conservation Commission

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



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Document Number:

400191375

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: GRATTAN Well Number: 4B-30H
8. Unit Name (if appl): _____ Unit Number: _____
9. Proposed Total Measured Depth: 11687

WELL LOCATION INFORMATION

10. QtrQtr: SESE Sec: 30 Twp: 2N Rng: 64W Meridian: 6
Latitude: 40.103730 Longitude: -104.586010

			FNL/FSL		FEL/FWL
Footage at Surface:	514	feet	FSL	491	feet
					FEL

11. Field Name: WATTENBERG Field Number: 90750
12. Ground Elevation: 4933 13. County: WELD

- #### 14. GPS Data:

Date of Measurement: 07/01/2011 PDOP Reading: 1.1 Instrument Operator's Name: WINANS

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>552</u>		<u>FSL</u>		<u>1367</u>		<u>FEL</u>		<u>460</u>		<u>FNL</u>		<u>1600</u>		<u>FEL</u>			
Sec:	30	Twp:	2N	Rng:	64W	Sec:	30	Twp:	2N	Rng:	64W	Sec:	30	Twp:	2N	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: 296 ft

18. Distance to nearest property line: 491 ft 19. Distance to nearest well permitted/completed in the same formation(BHL): 450 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	407-87	320	E/2

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#: 20090011

- 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 (SINCE PRODUCTION WILL BE ESTABLISHED ON MORE THAN ONE LEASE, THE ACREAGES FOR THE LEASES HAVE BEEN ADDED TOGETHER FOR "TOTAL ACRES IN LEASE".)

25. Distance to Nearest Mineral Lease Line: 460 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+1/1	16+1/1	30	0	80	80	80	0
SURF	12+1/4	8+5/8	40	0	960	198	960	0
1ST	8+3/4	7+1/1	26	0	7,451	912	7,451	500
2ND	6+1/8	4+1/2	13.5	0	11,687	375	11,687	7,151

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

33. Comments CONDUCTOR CASING WILL BE UTILIZED. ENCANA REQUESTS THE APPROVAL OF THE OMISSION OF OPEN HOLE LOGS FOR THIS WELL. A CEMENT BOND LOGS WILL BE FURNISHED IN PLACE OF AN OPEN HOLE LOG. 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: 8/3/2011

Email: JENNIFER.LIND@ENCANA.

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: _____

David S. Neslin

Director of COGCC

Date: 9/15/2011

API NUMBER

05 123 34362 00

Permit Number: _____ Expiration Date: 9/14/2013

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)Note surface casing setting depth change from 800' to 960'. Increase cement coverage accordingly and cement to surface.
- 2)Provide 48 hour notice of MIRU to Jim Precup at 303-726-3822 or e-mail at jim.precup@state.co.us.
- 3)Comply with Rule 317.i and provide cement coverage from the end of the production casing to a minimum of 200' above the Niobrara. Verify coverage with a cement bond log.
- 4)Comply with Rule 321. Run and submit Directional Survey from the end of production casing to base of surface casing. 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
2481119	SURFACE CASING CHECK
400191375	FORM 2 SUBMITTED
400191421	OTHER
400191422	DEVIATED DRILLING PLAN
400191423	WELL LOCATION PLAT
400191424	30 DAY NOTICE LETTER
400191623	PROPOSED SPACING UNIT
400192001	TOPO MAP
400192024	MINERAL LEASE MAP

Total Attach: 9 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Notified Encana that the COA has been added.9/13/2011	9/13/2011 5:48:06 AM
Permit	Returned to draft. Conductor casing information not input. Incorrect attachment labels.	3/4/2011 7:06:30 AM

Total: 2 comment(s)

BMP

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

Total: 0 comment(s)