

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



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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 ☐

Document Number:

400210330

PluggingBond SuretyID

20080067

3. Name of Operator: VECTA OIL & GAS LTD

4. COGCC Operator Number: 10267

5. Address: 575 UNION BLVD #208

City: LAKEWOOD State: CO Zip: 80228

6. Contact Name: Mathew Goolsby Phone: (303)618-7736 Fax: (303)945-2869

Email: matgoolsby@vecta-denver.com

7. Well Name: Little Bear Well Number: 44-28

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

9. Proposed Total Measured Depth: 5800

WELL LOCATION INFORMATION

10. QtrQtr: 16 Sec: 28 Twp: 13s Rng: 46w Meridian: 6

Latitude: 38.885030 Longitude: -102.559060

Footage at Surface: 1032 feet FNL/FSL 827 feet FEL/FWL FEL

11. Field Name: wildcat Field Number: 99999

12. Ground Elevation: 4413 13. County: CHEYENNE

14. GPS Data:

Date of Measurement: 09/21/2011 PDOP Reading: 1.6 Instrument Operator's Name: Sally Pettibone

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 _____

Sec: _____ Twp: _____ Rng: _____ Sec: _____ Twp: _____ Rng: _____

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: 4473 ft

18. Distance to nearest property line: 827 ft 19. Distance to nearest well permitted/completed in the same formation(BHL): 1 mi

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.)
Marmaton	MRTN			
Morrow	MRRW			
Spergen	SPGN			

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):

The SE Qtr of Sec 28, T13S, R46W plus the N/2 of section 34, T13S, R46W, 6PM. (482 acres)

25. Distance to Nearest Mineral Lease Line: 827 ft 26. Total Acres in Lease: 482

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	12+1/4	8+5/8	24	0	400	250	400	0
S.C. 1.1	7+7/8	5+1/2	15.5	0	5,730	205	5,730	4,200
	7+7/8	5+1/2	Stage Tool	0	3,200	380	3,200	0

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

33. Comments 1) No conductor pipe is planned.

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: Mathew Goolsby

Title: VP-Operations Date: 12/12/2011 Email: matgoolsby@vecta-denver.com

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: 1/30/2012

API NUMBER

05 017 07712 00

Permit Number: _____ Expiration Date: 1/29/2014

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.

Due to the potential presence of hydrogen sulfide in the oil and gas fields surrounding the proposed location, the operator is reminded to monitor H2S in accordance to Rule 607.

- 1) Provide 24 hour notice of MIRU to Craig Quint at 719-767-8939 or e-mail at craig.quint@state.co.us.
- 2) If production casing is set provide cement coverage to at least 200' above the shallowest completed interval and 50' below to 50' above Cheyenne/Dakota interval (2400'-1800' minimum). Verify with CBL.
- 3) If well is a dry hole set the following plugs: 40 sks cement +/- 50' above the Marmaton, 40 sks cement across any DST w/ show, 40 sks cement 50' below base of Cheyenne (2400' up), 40 sks cement 50' above top of Dakota (1800' up), 50 sks cement from 50' below surface casing shoe up into surface casing, 15 sks cement in top of surface csg, cut 4 ft below GL, weld on plate, 5 sks cement each in rat hole and mouse hole.

Attachment Check List

Att Doc Num	Name
2330684	SURFACE CASING CHECK
400210330	FORM 2 SUBMITTED
400211193	WELL LOCATION PLAT
400211194	TOPO MAP
400231553	WAIVERS
400231554	SURFACE AGRMT/SURETY

Total Attach: 6 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Final review passed 1/10/2012	1/10/2012 2:12:09 PM
Permit	On Hold awaiting staff discussions of H2S issues. Email to oper to verify number of target zones 1/3/2012 NKP	1/3/2012 9:37:38 AM
Permit	Operator answered #18 and input a statement about the conductor pipe. This form has passed completeness.	12/13/2011 12:08:26 PM
Permit	Returned to draft. Missing #18 and conductor pipe statement.	12/13/2011 7:16:24 AM

Total: 4 comment(s)

BMP

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

Total: 0 comment(s)