

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:

400359235

Date Received:

12/17/2012

PluggingBond SuretyID

20030110

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: WHITING OIL AND GAS CORPORATION

4. COGCC Operator Number: 96155

5. Address: 1700 BROADWAY STE 2300

City: DENVER State: CO Zip: 80290

6. Contact Name: Larry Brown Phone: (307)237-9310 Fax: ()

Email: Id_brown@bresnan.net

7. Well Name: Horsetail Well Number: 07-0611H

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

9. Proposed Total Measured Depth: 12870

WELL LOCATION INFORMATION

10. QtrQtr: Lot 2 Sec: 7 Twp: 10N Rng: 57W Meridian: 6

Latitude: 40.853972 Longitude: -103.801656

Footage at Surface: 2450 feet FNL/FSL 660 feet FEL/FWL
FNL FWL

11. Field Name: Wildcat Field Number: 99999

12. Ground Elevation: 4927 13. County: WELD

14. GPS Data:

Date of Measurement: 05/17/2012 PDOP Reading: 1.4 Instrument Operator's Name: Zane Bullard

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
1822 FNL 656 FWL 660 FNL 660 FWL
Sec: 7 Twp: 10N Rng: 57W Sec: 6 Twp: 10N Rng: 57W

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: 254 ft

18. Distance to nearest property line: 660 ft 19. Distance to nearest well permitted/completed in the same formation(BHL): 1323 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	535-179	960	N/2 sec 7, all sec 6

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):

E/2NE, NW, S/2 Sec T10N R57W

25. Distance to Nearest Mineral Lease Line: 0

26. Total Acres in Lease: 560

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	20	20		0	80			
SURF	13+1/2	9+5/8	36	0	1,850	917	1,850	0
1ST	8+3/4	7	29	0	6,277	436	6,277	0
2ND	6	4+1/2	11.6	5459	12,870			

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

33. Comments Conductor Will be Driven

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: Larry Brown

Title: Agent

Date: 12/17/2012

Email: ld_brown@bresnan.net

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: Matthew Lee Director of COGCC Date: 1/31/2013

API NUMBER

05 123 36647 00

Permit Number: _____ Expiration Date: 1/30/2015

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) Provide 48 hour notice prior to spud via electronic Form 42.
- 2) Provide cement coverage to a minimum of 200' above Niobrara. Verify coverage with cement bond log.
- 3) 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.
- 4) Operator shall exclude the segment of the proposed wellbore (horizontal) within 500' of the existing well from the hydraulic fracture treatment. The well of concern is the [Beffie #1, 123-05789].
- 5) After the proposed well has been drilled to TD, the operator shall submit a Sundry Notice Form 4 detailing the treatment plan and the segment of the borehole to be excluded from the treatment.
 - a. Sundry Notice shall be submitted at least ten (10) days prior to the hydraulic fracture treatment.
 - b. Required attachment: Directional survey
 - c. Required information: Specific details of wellbore segment being excluded from treatment.
 - d. Sundry Notice shall be submitted via email to the appropriate engineer and engineering supervisor.
 - e. Sundry Notice approval is required prior to hydraulic fracture treatment.
- 6) Operator shall clearly report wellbore segment excluded from treatment on Form 5A.

Applicable Policies and Notices to Operators

Notice Concerning Operating Requirements for Wildlife Protection.

Attachment Check List

Att Doc Num	Name
2233847	DEVIATED DRILLING PLAN
2233848	OTHER
2485058	ENGINEERING REVIEW
400359235	FORM 2 SUBMITTED
400359293	WELL LOCATION PLAT
400359296	TOPO MAP
400359353	DRILLING PLAN
400359364	DIRECTIONAL DATA

Total Attach: 8 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Per operator corrected mineral lease description. Per scanning and Engineer document 2485058 has been deleted and is not necessary. Final Review Completed. No LGD or public comment received.	1/28/2013 6:05:35 AM
Permit	Requested section for lease description and corrected distance to nearest utility to match location drawing. Form ok to pass when scanning recovers document 2485058 and operator provides section.	1/24/2013 6:30:23 AM
Permit	Per operator attached corrected deviated drilling plan and wellbore diagram.	1/24/2013 6:13:17 AM
Engineer	Called operator rep Mike Brown. He sent permitting new frac packer diagram and plan view showing 550' setback of proposed productive interval from the existing well of concern. New attachments OK. I requested he send me a statement of the proposed mitigation per instructions on the guidance document under option #2. Sent him a copy of the guidance doc [GWA Proposed Wells within 500' of Wells without Formation Isolation - 12-27-2012.pdf] Received his statement: Whiting plans to exclude the segment of the proposed wellbore within 550' of the Beffie #1 from the hydraulic fracture treatment by isolating the area with packers as shown in the diagram previously submitted for the Horsetail 07-0611H.	1/23/2013 1:40:39 PM
Engineer	On Hold - 1 existing well within 500' of proposed directional w/o zonal isolation. Beffie #1, 123-05789. Notified operator. Operator rep L. Brown called and pointed out that the directional plan shows the 300' radius setback and "other" is titled frac point space out diagram, which showed packer locations to provide the 300' exclusion. Operator will provide a statement to address the 500' stimulation setback and new directional plan if appropriate.	1/2/2013 10:49:21 AM
Permit	operator completed question #32. This form passed completeness.	12/19/2012 2:10:40 PM
Permit	Return to draft: 1. question #32, BOP equipment, is incomplete.	12/18/2012 4:28:46 PM

Total: 7 comment(s)

BMP

<u>Type</u>	<u>Comment</u>
Storm Water/Erosion Control	Stormwater management plans (SWMP) are in place to address construction, drilling and operations associated with oil and gas development throughout the State of Colorado. BMPs will be constructed as necessary to prevent stormwater from leaving the construction site. BMPs used will vary according to the location, and will remain until the pad is reclaimed.
Planning	The Operator participates in the Colorado Oil & Gas Association Voluntary Baseline Groundwater Sampling Program.
Material Handling and Spill Prevention	Spill Prevention Control and Countermeasures (SPCC) plans are in place to address any possible spill associated with oil and gas operations throughout the State of Colorado. <ul style="list-style-type: none"> • Materials and fluids will be stored in a neat and orderly fashion. • Waste will be collected regularly and disposed of at an offsite facility. • Prompt cleanup is required of spills to minimize waste materials entering the stormwater runoff. • Drip pans will be used during fueling and maintenance to contain spills or leaks. • Cleanup of trash and discarded material will be done at the end of the work day. • Cleanup will consist of monitoring the road, location and any other work areas. • Material to be cleaned up includes trash, scrap, and contaminated soil.

Total: 3 comment(s)