

FORM
2

Rev
08/13

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:

400997798

APPLICATION FOR PERMIT TO:

☒ Drill ☐ Deepen ☐ Re-enter ☐ Recomplete and Operate

TYPE OF WELL OIL ☒ GAS ☐ COALBED ☐ OTHER Unplanned

Refilling ☐

ZONE TYPE SINGLE ZONE ☒ MULTIPLE ZONES ☐ COMMINGLE ZONES ☐

Sidetrack ☒

Date Received:

03/01/2016

Well Name: Horsetail Fed

Well Number: 07F-0639

Name of Operator: WHITING OIL & GAS CORPORATION

COGCC Operator Number: 96155

Address: 1700 BROADWAY STE 2300

City: DENVER State: CO Zip: 80290

Contact Name: Michael Brown

Phone: (307)237-9310

Fax: ()

Email: ml_brown@bresnan.net

RECLAMATION FINANCIAL ASSURANCE

Plugging and Abandonment Bond Surety ID: 20030110

WELL LOCATION INFORMATION

QtrQtr: SENW Sec: 7 Twp: 10N Rng: 57W Meridian: 6

Latitude: 40.853606

Longitude: -103.795950

Footage at Surface: 2597 feet FNL/FSL FNL 2237 feet FEL/FWL FWL

Field Name: WILDCAT

Field Number: 99999

Ground Elevation: 4901

County: WELD

GPS Data:

Date of Measurement: 12/09/2014 PDOP Reading: 1.0 Instrument Operator's Name: Greg Weimer

If well is ☐ Directional ☒ Horizontal (highly deviated) **submit deviated drilling plan.**

Footage at Top of Prod Zone: FNL/FSL 2547 FNL 1902 FWL 600 FNL 1960 FWL
Sec: 7 Twp: 10N Rng: 57W Sec: 6 Twp: 10N Rng: 57W

LOCATION SURFACE & MINERALS & RIGHT TO CONSTRUCT

Surface Ownership: ☒ Fee ☐ State ☐ Federal ☐ Indian

The Surface Owner is: ☒ is the mineral owner beneath the location.

(check all that apply)

☒ is committed to an Oil and Gas Lease.

☒ has signed the Oil and Gas Lease.

☐ is the applicant.

The Mineral Owner beneath this Oil and Gas Location is: ☒ Fee ☐ State ☐ Federal ☐ Indian

The Minerals beneath this Oil and Gas Location will be developed by this Well: Yes

The right to construct the Oil and Gas Location is granted by: oil and gas lease

Surface damage assurance if no agreement is in place: _____

Surface Surety ID: _____

LEASE INFORMATION

Using standard QtrQtr, Sec, Twp, Rng format, describe one entire mineral lease that will be produced by this well (Describe lease beneath surface location if produced. Attach separate description page or map if necessary.)

Tract 1
6th PM
T10N R57W
Sec 7: Gr acs: 312.4500 Net acs: 312.4500
L3(36.18), L4(36.27), E2SW, W2SE, E2SE
Sec 18: Gr acs: 160.0000 Net acs: 160.0000
NE
Tract 2
6th PM
T10N R57W
Sec 7: Gr acs: 232.0900 Net acs: 232.0900
L1(36.00), L2(36.09), E2NW, E2NE
Tract 3
6th PM
T10N R57W
Sec 8: Gr acs: 480.0000 Net acs: 480.0000
W2, W2E2
Sec 17: Gr acs: 80.0000 Net acs: 80.0000
N2NW

Total Acres in Described Lease: 1265 Described Mineral Lease is: ☒ Fee ☐ State ☐ Federal ☐ Indian

Federal or State Lease # _____

Distance from Completed Portion of Wellbore to Nearest Lease Line of described lease: 0 Feet

CULTURAL DISTANCE INFORMATION

Distance to nearest:

Building:	<u>3650</u> Feet
Building Unit:	<u>5280</u> Feet
High Occupancy Building Unit:	<u>5280</u> Feet
Designated Outside Activity Area:	<u>5280</u> Feet
Public Road:	<u>2237</u> Feet
Above Ground Utility:	<u>341</u> Feet
Railroad:	<u>5280</u> Feet
Property Line:	<u>2237</u> Feet

INSTRUCTIONS:

- All measurements shall be provided from center of the Proposed Well to nearest of each cultural feature as described in Rule 303.a.(5).
- Enter 5280 for distance greater than 1 mile.
- Building - nearest building of any type. If nearest Building is a Building Unit, enter same distance for both.
- Building Unit, High Occupancy Building Unit, and Designated Outside Activity Area - as defined in 100-Series Rules.

DESIGNATED SETBACK LOCATION INFORMATION

Check all that apply. This location is within a: ☐ Buffer Zone ☐ Exception Zone ☐ Urban Mitigation Area

- Buffer Zone – as described in Rule 604.a.(2), within 1,000' of a Building Unit
- Exception Zone - as described in Rule 604.a.(1), within 500' of a Building Unit.
- Urban Mitigation Area - as defined in 100-Series Rules.

Pre-application Notifications (required if location is within 1,000 feet of a building unit):

Date of Rule 305.a.(1) Urban Mitigation Area Notification to Local Government: _____

Date of Rule 305.a.(2) Buffer Zone Notification to Building Unit Owners: _____

SPACING and UNIT INFORMATION

Distance from completed portion of proposed wellbore to nearest completed portion of offset wellbore permitted or completed in the same formation: 202 Feet

Distance from Completed Portion of Wellbore to Nearest Unit Boundary 100 Feet (Enter 5280 for distance greater than 1 mile.)

Federal or State Unit Name (if appl): _____ Unit Number: _____

SPACING & FORMATIONS COMMENTS**OBJECTIVE FORMATIONS**

Objective Formation(s)	Formation Code	Spacing Order Number(s)	Unit Acreage Assigned to Well	Unit Configuration (N/2, SE/4, etc.)
CODLL	CODL	535-508	960	N/2 S7, All S6

DRILLING PROGRAMProposed Total Measured Depth: 13628 Feet

Distance from proposed wellbore to nearest existing or permitted wellbore belonging to another operator:

3982 Feet (Including plugged wells)Will a closed-loop drilling system be used? YesIs H₂S gas reasonably expected to be encountered during drilling operations at concentrations greater than or equal to 100 ppm? No (If Yes, attach an H₂S Drilling Operations Plan)Will salt sections be encountered during drilling? NoWill salt based (>15,000 ppm Cl) drilling fluids be used? NoWill oil based drilling fluids be used? NoBOP Equipment Type: ☒ Annular Preventor ☒ Double Ram ☐ Rotating Head ☐ None**GROUNDWATER BASELINE SAMPLING AND MONITORING AND WATER WELL SAMPLING**Water well sampling required per Rule 609**DRILLING WASTE MANAGEMENT PROGRAM**Drilling Fluids Disposal: OFFSITE Drilling Fluids Disposal Methods: Commercial DisposalCuttings Disposal: ONSITE Cuttings Disposal Method: Other

Other Disposal Description:

Remediation

Beneficial reuse or land application plan submitted? Reuse Facility ID: or Document Number: **CASING PROGRAM**

Casing Type	Size of Hole	Size of Casing	Wt/Ft	Csg/Liner Top	Setting Depth	Sacks Cmt	Cmt Btm	Cmt Top
CONDUCTOR	24	20	92	0	80	179	80	0
SURF	13+1/2	9+5/8	36	0	2027	863	2027	0
1ST	8+1/4	5+1/2	17	0	13628	2251	13628	0

☐ Conductor Casing is NOT planned**DESIGNATED SETBACK LOCATION EXCEPTIONS**

Check all that apply:

- ☐ Rule 604.a.(1)A. Exception Zone (within 500' of Building Unit)
- ☐ Rule 604.b.(1)A. Exception Location (existing or approved Oil & Gas Location now within a Designated Setback as a result of Rule 604.a.)
- ☐ Rule 604.b.(1)B. Exception Location (existing or approved Oil & Gas Location is within a Designated Setback due to Building Unit construction after Location approval)
- ☐ Rule 604.b.(2) Exception Location (SUA or site-specific development plan executed on or before August 1, 2013)
- ☐ Rule 604.b.(3) Exception Location (Building Units constructed after August 1, 2013 within setback per an SUA or site-specific development plan)

GREATER WATTENBERG AREA LOCATION EXCEPTIONS

Check all that apply:

- ☐ Rule 318A.a. Exception Location (GWA Windows).
☐ Rule 318A.c. Exception Location (GWA Twinning).

RULE 502.b VARIANCE REQUEST

- ☐ Rule 502.b. Variance Request from COGCC Rule or Spacing Order Number _____

OTHER LOCATION EXCEPTIONS

Check all that apply:

- ☐ Rule 318.c. Exception Location from Rule or Spacing Order Number _____
☐ Rule 603.a.(2) Exception Location (Property Line Setback).

ALL exceptions and variances require attached Request Letter(s). Refer to applicable rule for additional required attachments (e.g. waivers, certifications, SUAs).

OPERATOR COMMENTS AND SUBMITTAL

Comments

Sidetrack verbal approval granted via E-Mail by Diana Burn Monday, February 29, 2016, 3:46 PM.
While drilling in the curve we encountered a fault and the build rates dropped off and we are unable to get the build rates needed to land in the Codell. With the current build rates we would end up landing 15'-20' low of our target zone. The intent is to sidetrack off a cement plug at 5,121' and finish drilling the well to its original BHL. I have attached the schematic for the sidetrack request below.
TOTAL DEPTH REACHED:
6,226' (MD) 6012' (TVD)
CASING:
SURFACE CASING:
SIZE: 9.625" 36PPF J-55 LTC
DEPTH: 2,027'
DESCRIPTION OF FISH IN THE HOLE:
NO FISH TO REPORT
PLUG BACK DEPTHS:
PLUG_1:
FROM 6226' TO 5476'
295 SXS
15.8 PPG (1.16 CUFT/SX)
SET USING DRILL PIPE @ 6226'
HOLE SIZE = 8.5"
PLUG_2
FROM 5476' TO 4726' (NIOBRARA TOP EST AT 5690')
340 SXS
17 PPG (0.99 CUFT/SX)
SET USING DRILL PIPE @ 5476'
HOLE SIZE = 8.5"

SIDETRACK KICK OFF POINT:
5121' (MD)
BHL TARGET FOR SIDETRACK HOLE:
(SAME TARGET) 600' FNL AND 1960'FWL S6-T10N-R57W

This application is in a Comprehensive Drilling Plan No CDP #: _____

Location ID: 442297

Is this application being submitted with an Oil and Gas Location Assessment application? No

I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete.

Signed: _____ Print Name: Michael Brown

Title: Agent Date: 3/1/2016 Email: ml_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: _____

Director of COGCC

Date: 3/3/2016

Expiration Date: 03/02/2018

API NUMBER

05 123 41783 01

Conditions Of Approval

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.

COA Type

Description

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Best Management Practices

No BMP/COA Type

Description

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Applicable Policies and Notices to Operators

Policy
Notice Concerning Operating Requirements for Wildlife Protection. http://cogcc.state.co.us/documents/reg/Policies/Wildlife_Notice.pdf

Attachment Check List

Att Doc Num

Name

400997798	FORM 2 SUBMITTED
400997811	CORRESPONDENCE
400997812	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Final review complete.	3/3/2016 12:33:32 PM
Permit	This form changes the objective formation from Niobrara to Codell. Permitting task complete.	3/2/2016 10:21:07 AM
Permit	LGD and public comment periods waived by COGCC staff. Comment periods do not apply to the application for an unplanned sidetrack when drilling is in progress.	3/2/2016 9:25:24 AM
Permit	Passed completeness.	3/2/2016 9:22:57 AM

Total: 4 comment(s)