

**APPLICATION FOR PERMIT TO:**

**Drill**       Deepen       Re-enter       Recomplete and Operate

TYPE OF WELL    OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> COALBED <input type="checkbox"/> OTHER <u>UNPLANNED</u>	Refiling <input type="checkbox"/>
ZONE TYPE    SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONES <input type="checkbox"/> COMMINGLE ZONES <input type="checkbox"/>	Sidetrack <input checked="" type="checkbox"/>

Date Received:  
03/10/2015

Well Name: Razor      Well Number: 11G-0210B

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)-265-3510      Fax: ( )

Email: ml\_brown@bresnan.net

**RECLAMATION FINANCIAL ASSURANCE**  
Plugging and Abandonment Bond Surety ID: 20030110

**WELL LOCATION INFORMATION**

QtrQtr: SWNE      Sec: 11      Twp: 10N      Rng: 58W      Meridian: 6

Latitude: 40.854244      Longitude: -103.829544

Footage at Surface: <u>2321</u> feet	FNL/FSL FNL <u>1749</u> feet	FEL/FWL FEL
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Field Name: WILDCAT      Field Number: 99999

Ground Elevation: 4976      County: WELD

GPS Data:  
Date of Measurement: 05/10/2013    PDOP Reading: 3.0    Instrument Operator's Name: Dallas Nielsen

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
<u>2562</u> FNL <u>2184</u> FEL	<u>600</u> FNL <u>2145</u> FEL	
Sec: <u>11</u> Twp: <u>10N</u> Rng: <u>58W</u>	Sec: <u>2</u> Twp: <u>10N</u> Rng: <u>58W</u>	

**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.)

T10N R58W, 6th P.M.  
Section 1: L1 (40.04), L2 (40.12), L3 (40.20), L4 (40.28), S2N2, S2  
Section 2: L1 (40.36), L2 (40.46), L3 (40.54), S2NE, E2SW, W2SE  
Section 3: SESW, SWSE  
Section 10: E2NE, NWNE, NENW  
Section 11: W2NW, S2  
Section 13: SWSE

Total Acres in Described Lease: 1682 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: 4444 Feet  
Building Unit: 5280 Feet  
High Occupancy Building Unit: 5280 Feet  
Designated Outside Activity Area: 5280 Feet  
Public Road: 5280 Feet  
Above Ground Utility: 3510 Feet  
Railroad: 5280 Feet  
Property Line: 3531 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 Wellbore to Nearest Wellbore Permitted or Completed in the same formation: 330 Feet

Distance from Completed Portion of Wellbore to Nearest Unit Boundary 600 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.)
NIOBRARA	NBRR	535-314	960	N/2 Sec11, All Sec 2

## DRILLING PROGRAM

Proposed Total Measured Depth: 13814 Feet

Distance to nearest permitted or existing wellbore penetrating objective formation: 330 Feet (Including plugged wells)

Will a closed-loop drilling system be used? Yes

Is H<sub>2</sub>S gas reasonably expected to be encountered during drilling operations at concentrations greater than or equal to 100 ppm? No (If Yes, attach an H<sub>2</sub>S Drilling Operations Plan)

Will salt sections be encountered during drilling? No

Will salt based (>15,000 ppm Cl) drilling fluids be used? No

Will oil based drilling fluids be used? No

BOP 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 Disposal

Cuttings Disposal: ONSITE Cuttings Disposal Method: Other

Other Disposal Description:

Bio-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	16+1/16	16	65	0	80			
SURF	13+1/2	9+5/8	36	0	1860	798	1860	0
1ST	8+3/4	7	29	0	6516	422	6516	0
1ST LINER	6	4+1/2	11.6	5496	13814			

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, 3/9/15 at 2:57pm.  
While drilling in the lateral the connection below the power section on the motor came lose and turned causing us to drill too high of an inclination. Due to the high inclination we feel that once we get it brought back down in the zone where we need to be we won't be able to run our production liner to bottom. We are requesting to open hole sidetrack in the Niobrara D. We will be running a cemented production liner.

TOTAL DEPTH REACHED:

- 8,160' (MD) 6120' (TVD)
- CASING:
- SURFACE CASING:
  - SIZE: 9.625" 36PPF
  - DEPTH: 1,876' MD 1,815' TVD
- PRODUCTION CASING:
- SIZE: 7.0" 29 PPF J-55 LTC
  - DEPTH: 6,533' MD 6,147' TVD

SIDETRACK PROCEDURE AND PLUG BACK DEPTHS:

- No plug will be set in horizontal bore; Plan to trip in with our directional assembly and time drill to go on the low side of the current wellbore.

SIDETRACK KICK OFF POINT:

- 7,579' (MD) 6,147' (TVD)
- BHL TARGET FOR SIDETRACK HOLE:
- (SAME TARGET) 600' FNL AND 2145' FEL S2-T10N-R58W

This application is in a Comprehensive Drilling Plan \_\_\_\_\_ CDP #: \_\_\_\_\_

Location ID: 435677

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: 3/10/2015 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: 3/12/2015

Expiration Date: 03/11/2017

API NUMBER

05 123 38730 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**

1	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.
2	Material Handling and Spill Prevention	<p>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.</p> <ul style="list-style-type: none"> <li>• Materials and fluids will be stored in a neat and orderly fashion.</li> <li>• Waste will be collected regularly and disposed of at an offsite facility.</li> <li>• Prompt cleanup is required of spills to minimize waste materials entering the stormwater runoff.</li> <li>• Drip pans will be used during fueling and maintenance to contain spills or leaks.</li> <li>• Cleanup of trash and discarded material will be done at the end of the work day.</li> <li>• Cleanup will consist of monitoring the road, location and any other work areas.</li> <li>• Material to be cleaned up includes trash, scrap, and contaminated soil.</li> </ul>
3	Drilling/Completion Operations	The conductor casing will be driven.

Total: 3 comment(s)

## Attachment Check List

**Att Doc Num**

**Name**

400806741	FORM 2 SUBMITTED
400806833	DIRECTIONAL DATA
400806835	DEVIATED DRILLING PLAN
400806836	OTHER
400806837	OTHER
400806843	CORRESPONDENCE
400807060	WELLBORE DIAGRAM
400807062	WELLBORE DIAGRAM

Total Attach: 8 Files

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Operator confirmed TOP is correct with the back build. Final Review Completed. No LGD or public comment received.	3/12/2015 1:21:15 PM
Permit	BHL is the same. New plat is not necessary.	3/10/2015 3:03:14 PM
Permit	Passed completeness.	3/10/2015 2:40:18 PM
Permit	Returned to draft. Wellbore diagram is missing.	3/10/2015 1:55:45 PM

Total: 4 comment(s)