

**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:  
10/15/2015

Well Name: Razor Federal      Well Number: 12G-1311A

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: SWNE      Sec: 12      Twp: 10N      Rng: 58W      Meridian: 6

Latitude: 40.853494      Longitude: -103.811636

Footage at Surface:      2614 feet      FNL/FSL      FNL      2103 feet      FEL/FWL      FEL

Field Name: WILDCAT      Field Number: 99999

Ground Elevation: 4954      County: WELD

GPS Data:  
Date of Measurement: 05/02/2013      PDOP Reading: 1.5      Instrument Operator's Name: Jeremy Harris

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>2425</u>	<u>FSL</u>	<u>1751</u>	<u>100</u>	<u>FSL</u>	<u>1814</u>
		<u>FEL</u>			<u>FEL</u>
Sec: <u>12</u>	Twp: <u>10N</u>	Rng: <u>58W</u>	Sec: <u>13</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:    Surface Use Agreement

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, R57W, 6TH P.M.  
TRACT 1:  
SECTION 7: W2NE (CONTAINING 80 ACRES)  
TRACT 2:  
SECTION 31: L1 (37.16), L2 (37.21), E2NW, NE/4 (CONTAINING 314.37 ACRES MORE OR LESS)  
TRACT 3: T10N, R58W,  
SECTION 1: L1(40.04), L2(40.12), L3(40.20), L4(40.28), S/2N/2, S2  
SECTION 12: ALL (CONTAINING 800.64 ACRES, MORE OR LESS)  
TRACT 4: T10N, R58W  
SECTION 2: L1(40.36), L2(40.46),L3(40.54), S/2NE/4, E/2SW/\*, S/2SE/4, SE/4NW/4 SECTION 11: E/2NW/4, W/2NE/4  
(CONTAINING 561.36 ACRES MORE OR LESS)

Total Acres in Described Lease: 1756 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: 5280 Feet  
Building Unit: 5280 Feet  
High Occupancy Building Unit: 5280 Feet  
Designated Outside Activity Area: 5280 Feet  
Public Road: 2103 Feet  
Above Ground Utility: 713 Feet  
Railroad: 5280 Feet  
Property Line: 2103 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: 219 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.)
NIOBRARA	NBRR	535-414	960	S/2 S12, All S13

## DRILLING PROGRAM

Proposed Total Measured Depth: 13729 Feet

Distance to nearest permitted or existing wellbore penetrating objective formation: 219 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	1980	861	1980	0
1ST	8+3/4	7	29	0	6200	431	6200	0
1ST LINER	6	4+1/2	11.6	5338	13729			

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	<p>Sidetrack verbal approval granted via E-mail per Diana Burn on October 15, 2015 4:27 pm.</p> <p>While running our 7" intermediate string we became stuck in the Sharon Springs. After getting unstuck and coming out of the hole we were unable to circulate due to the mud being dehydrated and clumped up causing the formation to fall in. We then laid down the 7" casing and picked up a reaming assembly to go in the hole and clean the dehydrated mud out and replace it with new clean mud. While tripping out of the hole with the reaming assembly we were not able to trip out with rotating and circulating due to the hole coming apart. The intent is to sidetrack off a cement plug at 5,200' and avoid the old hole where the mud reacted with the formations and drill to the same BHL</p> <p>TOTAL DEPTH REACHED: 6,260' (MD) 5,772' (TVD) 93.72 degrees 180 azimuth</p> <p>CASING: SURFACE CASING: SIZE: 9.625" 36PPF J-55 LTC DEPTH: 1,980' DESCRIPTION OF FISH IN THE HOLE: NO FISH TO REPORT PLUG BACK DEPTHS: PLUG_1: FROM 5300' TO 4400' MD (NIOBRARA TOP EST AT 5765' TVD) 376 SXS 15.8 PPG (1.15 CUFT/SX) 15% EXCESS SET USING DRILL PIPE AND 1500' 2-7/8" TUBING @ 6260' HOLE SIZE = 8.75" PLUG_2: FROM 4400' TO 3500' MD 437 SXS 17.0 PPG (0.99 CUFT/SX) 15% EXCESS SET USING DRILL PIPE AND 1500' 2-7/8" TUBING @ 5360' HOLE SIZE = 8.75" SIDETRACK KICK OFF POINT: 3500' (MD) BHL TARGET FOR SIDETRACK HOLE: (SAME TARGET) 100' FNL AND 1814'FEL S1-T10N-R58W</p>
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This application is in a Comprehensive Drilling Plan \_\_\_\_\_ CDP #: \_\_\_\_\_

Location ID: 432105

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: 10/15/2015 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: Matthew Lee Director of COGCC Date: 10/16/2015

Expiration Date: 10/15/2017

<b>API NUMBER</b>
05 123 38546 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.

<u>COA Type</u>	<u>Description</u>

### Best Management Practices

<u>No</u>	<u>BMP/COA Type</u>	<u>Description</u>
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	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"> <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. Wells Planned within 1500 feet are shown on the multi-well plan map.

Total: 3 comment(s)

### Applicable Policies and Notices to Operators

Notice Concerning Operating Requirements for Wildlife Protection.

### Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
400918623	FORM 2 SUBMITTED
400918854	DIRECTIONAL DATA
400918857	DEVIATED DRILLING PLAN
400919332	WELLBORE DIAGRAM
400919334	CORRESPONDENCE

Total Attach: 5 Files

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Passes Completeness. LGD and public comment periods waived by COGCC Staff. Comment periods do not apply to this application for an unplanned sidetrack when drilling is in progress.	10/16/2015 9:43:04 AM
Permit	Returned to draft: --attach wellbore diagram including all casing & plugs & KOP --attach PDF of verbal approval email	10/16/2015 8:15:15 AM

Total: 2 comment(s)