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|---|---|--|--|
| <b>FORM</b><br><b>2</b><br>Rev<br>08/13   | <b>State of Colorado</b><br><b>Oil and Gas Conservation Commission</b><br>1120 Lincoln Street, Suite 801, Denver, Colorado 80203<br>Phone: (303) 894-2100 Fax: (303) 894-2109 |  | Document Number:<br><br>400856588<br><b>(REJECTED)</b><br><br>Date Received:<br><br>06/30/2015 |
| <b>APPLICATION FOR PERMIT TO:</b>   |   |  |  |
| <input checked="" type="checkbox"/> <b>Drill</b> <input type="checkbox"/> Deepen <input type="checkbox"/> Re-enter <input type="checkbox"/> Recomplete and Operate                              |   |  |  |
| TYPE OF WELL    OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> COALBED <input type="checkbox"/> OTHER _____   |   | Refiling <input type="checkbox"/>  |  |
| ZONE TYPE    SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONES <input type="checkbox"/> COMMINGLE ZONES <input type="checkbox"/>   |   | Sidetrack <input type="checkbox"/>   |  |
| Well Name: <u>Horsetail</u>   |   | Well Number: <u>07G-1809</u>   |  |
| Name of Operator: <u>WHITING OIL &amp; GAS CORPORATION</u>  |   | COGCC Operator Number: <u>96155</u>  |  |
| Address: <u>1700 BROADWAY STE 2300</u>  |   |  |  |
| City: <u>DENVER</u> State: <u>CO</u> Zip: <u>80290</u>  |   |  |  |
| Contact Name: <u>Michael Brown</u>  |   | Phone: <u>(307)237-9310</u> Fax: (    )  |  |
| Email: <u>ml_brown@bresnan.net</u>  |   |  |  |
| <b>RECLAMATION FINANCIAL ASSURANCE</b>  |   |  |  |
| Plugging and Abandonment Bond Surety ID: <u>20030110</u>  |   |  |  |
| <b>WELL LOCATION INFORMATION</b>  |   |  |  |
| QtrQtr: <u>SWNE</u> Sec: <u>7</u> Twp: <u>10N</u> Rng: <u>57W</u> Meridian: <u>6</u>  |   |  |  |
| Latitude: <u>40.853642</u>  |   | Longitude: <u>-103.791775</u>  |  |
| Footage at Surface: <u>2593</u> feet  |   | FNL/FSL      FEL/FWL<br><u>FNL</u> <u>1795</u> feet <u>FEL</u>                     |  |
| Field Name: <u>WILDCAT</u>  |   | Field Number: <u>99999</u>   |  |
| Ground Elevation: <u>4893</u>   |   | County: <u>WELD</u>  |  |
| GPS Data:   |   |  |  |
| Date of Measurement: <u>02/27/2015</u> PDOP Reading: <u>1.2</u> Instrument Operator's Name: <u>Dallas Nielsen</u>   |   |  |  |
| If well is <input type="checkbox"/> Directional <input checked="" type="checkbox"/> Horizontal (highly deviated) <b>submit deviated drilling plan.</b>  |   |  |  |
| Footage at Top of Prod Zone:  |   | Bottom Hole:   |  |
| FNL/FSL      FEL/FWL      FNL/FSL      FEL/FWL<br><u>2548</u> <u>FSL</u> <u>2322</u> <u>FEL</u> <u>100</u> <u>FSL</u> <u>2435</u> <u>FEL</u>  |   |  |  |
| Sec: <u>7</u> Twp: <u>10N</u> Rng: <u>57W</u>   |   | Sec: <u>18</u> Twp: <u>10N</u> Rng: <u>57W</u>                                     |  |
| <b>LOCATION SURFACE &amp; MINERALS &amp; RIGHT TO CONSTRUCT</b>   |   |  |  |
| Surface Ownership: <input checked="" type="checkbox"/> Fee <input type="checkbox"/> State <input type="checkbox"/> Federal <input type="checkbox"/> Indian                                      |   |  |  |
| The Surface Owner is: <input checked="" type="checkbox"/> is the mineral owner beneath the location.  |   |  |  |
| (check all that apply) <input checked="" type="checkbox"/> is committed to an Oil and Gas Lease.  |   |  |  |
| <input checked="" type="checkbox"/> has signed the Oil and Gas Lease.   |   |  |  |
| <input type="checkbox"/> is the applicant.  |   |  |  |
| The Mineral Owner beneath this Oil and Gas Location is: <input checked="" type="checkbox"/> Fee <input type="checkbox"/> State <input type="checkbox"/> Federal <input type="checkbox"/> Indian |   |  |  |
| The Minerals beneath this Oil and Gas Location will be developed by this Well: <u>Yes</u>   |   |  |  |
| The right to construct the Oil and Gas Location is granted by: <u>oil and gas lease</u>   |   |  |  |
| 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: 3369 Feet  
Building Unit: 5280 Feet  
High Occupancy Building Unit: 5280 Feet  
Designated Outside Activity Area: 5280 Feet  
Public Road: 2593 Feet  
Above Ground Utility: 294 Feet  
Railroad: 5280 Feet  
Property Line: 1795 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: 262 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           | 535-508                 | 960                           | S/2 S7, All S18                      |

**DRILLING PROGRAM**

Proposed Total Measured Depth: 13842 Feet  
 Distance to nearest permitted or existing wellbore penetrating objective formation: 262 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   | 24           | 16             | 65    | 0             | 80            | 179       | 80      | 0       |
| SURF        | 13+1/2       | 9+5/8          | 36    | 0             | 1800          | 800       | 1800    | 0       |
| 1ST         | 8+3/4        | 7              | 29    | 0             | 6092          | 409       | 6092    | 0       |
| 1ST LINER   | 6            | 4+1/2          | 11.6  | 5274          | 13842         |           |         |         |

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

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

Location ID: \_\_\_\_\_

Is this application being submitted with an Oil and Gas Location Assessment application? Yes

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: 6/30/2015 Email: ml\_brown@bresnan.net

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: \_\_\_\_\_

Expiration Date: \_\_\_\_\_

API NUMBER

05

### 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

| COA Type                       | Description   |
|--------------------------------|---|
| Drilling/Completion Operations | 1) Provide 48 hour notice of MIRU via electronic Form 42.<br>2) Set 1800' of surface casing. (Base of Upper Pierre aquifer is deeper than proposed 1600' surface casing. 1780' in offset 123-05789, gs 4945').<br>3) Provide cement coverage to a minimum of 200' above Niobrara. Verify coverage with cement bond log.<br>4) 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. |

## Best Management Practices

| <u>No</u> | <u>BMP/COA Type</u>                    | <u>Description</u>  |
|-----------|--|---|
| 1         | Planning                               | Wells Planned within 1500 feet are shown on the multi-well plan map.  |
| 2         | 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.   |
| 3         | 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> |
| 4         | Drilling/Completion Operations         | One of the first wells drilled on the pad will be logged with an open-hole resistivity log with gamma-ray from TD to into the surface casing. All wells on the pad will have a cement bond log with gamma-ray run on the production casing (or intermediate casing if production liner is run). All wells on the pad will have the horizontal portion of the wellbore logged with a measured-while-drilling log with gamma-ray. The Form 5, Completion Report, for each well on the pad will list all logs run and have those logs attached. The Form 5 for a well without open-hole logs shall clearly state "No open-hole logs were run." The Form 5 for a well without open-hole logs shall clearly identify (by API#, well name & number) the well in which open-hole logs were run.  |

Total: 4 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>                |
|--------------------|----------------------------|
| 400856588          | FORM 2 SUBMITTED           |
| 400859748          | OffsetWellEvaluations Data |
| 400859761          | DIRECTIONAL DATA           |
| 400859762          | DEVIATED DRILLING PLAN     |
| 400859763          | DEVIATED DRILLING PLAN     |
| 400859764          | DRILLING PLAN              |
| 400859765          | WELL LOCATION PLAT         |

Total Attach: 7 Files

### General Comments

| <u>User Group</u>    | <u>Comment</u>  | <u>Comment Date</u>      |
|----------------------|---|--------------------------|
| Permit<br>(Rejected) | REJECTION COMMENT: This APD is being rejected per the Rejection Process Guidance which states that a pad of Form 2's requiring a total of four or more attachments to be added will be rejected. This pad requires a missing SUA to be attached to a total of 15 APD's. Operator and COGCC staff have been consulted. | 7/30/2015<br>4:01:17 PM  |
| Engineer             | Evaluated existing wells within 1500' of proposed directional.<br>Increased surface casing from 1600' to 1800' and cement qty proportionally.   | 7/23/2015<br>11:15:42 AM |
| Permit               | Passed Completeness   | 7/1/2015 1:33:26<br>PM   |

Total: 3 comment(s)

REJECTED