

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:  
400739242  
**(SUBMITTED)**

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:

Well Name: Cottonwood      Well Number: 08E-0504  
Name of Operator: WHITING OIL & GAS CORPORATION      COGCC Operator Number: 96155  
Address: 1700 BROADWAY STE 2300  
City: DENVER      State: CO      Zip: 80290  
Contact Name: Scott Webb      Phone: (303)390-4095      Fax: (303)-390-5590  
Email: scottw@whiting.com

RECLAMATION FINANCIAL ASSURANCE

Plugging and Abandonment Bond Surety ID: 20030110

WELL LOCATION INFORMATION

QtrQtr: SWNW      Sec: 8      Twp: 9N      Rng: 57W      Meridian: 6  
Latitude: 40.767048      Longitude: -103.780976  
Footage at Surface: 2285 feet      FNL/FSL      FNL      766 feet      FEL/FWL      FWL  
Field Name: WILDCAT      Field Number: 99999  
Ground Elevation: 4726      County: WELD  
GPS Data:  
Date of Measurement: 10/31/2014      PDOP Reading: 2.2      Instrument Operator's Name: Larry Brown  
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  
   2647    FNL      1354    FWL     100    FNL      1205    FWL  
   Sec: 8    Twp: 9N    Rng: 57W      Sec: 5    Twp: 9N    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:    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.)

T9N-R97W, 6th P.M. Section 8: All; Section 9: E/2; Section 15: NW/4, W/2NE/4, S/2; Section 17:N/2.

Total Acres in Described Lease: 1840 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: 1354 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: 5280 Feet  
Above Ground Utility: 5280 Feet  
Railroad: 5280 Feet  
Property Line: 766 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: 704 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	535-481	960	N/2 Sec 8, all Sec 5

## DRILLING PROGRAM

Proposed Total Measured Depth: 13730 Feet

Distance to nearest permitted or existing wellbore penetrating objective formation: 704 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:

    Land application and remediation.    

Beneficial reuse or land application plan submitted?     Yes    

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	1560	635	1560	0
1ST	8+3/4	7	29	0	5880	665	5880	0
1ST LINER	6	4+1/2	11.6	5156	13730	595	13730	5156

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 While drilling the lateral portion of the well, we crossed a faulted section and drilled into the Sharon Sprongs Formation. TOH for a pressure spike and had difficulty getting back to bottom and got stuck in hole. The bore continued to slough off and it was decided to abandon the hole to avoid getting stuck. Total Depth reached: 11,354' MD and 5,516' TVD. Surface Casing set: 9-5/8" set at 1,560' MD & TVD. 7" Production casing set 5,880' MD and 5,516' TVD. There is no fish in hole. Sidetrack procedure and plug back depths; no plug will be set in the hole. Plan to trip in hole to kop with directional assembly and time drill to low side of the current wellbore. Sidetrack KOP: 9,844' MD and 5,529' TVD. BHL Target same as originally permitted: 100' FNL & 1,205' FWL, Sec 5-T9N-R97W. Verbal approval to sidetrack well was given by Diana Burn via E-Mail Monday November 24, 2014.

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

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

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: Scott Webb \_\_\_\_\_

Title: Reg & Permit Manager \_\_\_\_\_ Date: \_\_\_\_\_ Email: scottw@whiting.com \_\_\_\_\_

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

05 123 40408 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.

### Best Management Practices

No BMP/COA Type

Description

No BMP/COA Type	Description

### Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
400739405	OTHER
400739410	OTHER
400739436	DIRECTIONAL DATA
400739446	DEVIATED DRILLING PLAN
400739567	OTHER

Total Attach: 5 Files

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>

Total: 0 comment(s)

