


<b>FORM</b> <b>2</b> Rev 08/16	<b>State of Colorado</b> <b>Oil and Gas Conservation Commission</b> 1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 894-2100 Fax: (303) 894-2109		Document Number: 401616726 <b>(RE-SUBMITTED)</b>  Date Received:
<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 _____			Refilling <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>Rinn Valley West</u>		Well Number: <u>N18-20-8C</u>	
Name of Operator: <u>EXTRACTION OIL &amp; GAS INC</u>		COGCC Operator Number: <u>10459</u>	
Address: <u>370 17TH STREET SUITE 5300</u>			
City: <u>DENVER</u>		State: <u>CO</u>	Zip: <u>80202</u>
Contact Name: <u>Kelsi Welch</u>		Phone: <u>(720)354-4607</u>	Fax: <u>( )</u>
Email: <u>kwelch@extractionog.com</u>			
<b>RECLAMATION FINANCIAL ASSURANCE</b>			
Plugging and Abandonment Bond Surety ID: <u>20130028</u>			
<b>WELL LOCATION INFORMATION</b>			
QtrQtr: <u>SESE</u>	Sec: <u>18</u>	Twp: <u>2N</u>	Rng: <u>68W</u>
Meridian: <u>6</u>		Latitude: <u>40.132044</u>	
Longitude: <u>-105.039676</u>			
Footage at Surface: <u>211</u> Feet	FNL/FSL <u>FSL</u> <u>841</u> Feet	FEL/FWL <u>FEL</u>	
Field Name: <u>WATTENBERG</u>		Field Number: <u>90750</u>	
Ground Elevation: <u>4943</u>		County: <u>WELD</u>	
GPS Data:			
Date of Measurement: <u>01/30/2018</u>		PDOP Reading: <u>1.1</u>	Instrument Operator's Name: <u>Travis Winnicki</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: <u>460</u> Feet	FNL/FSL <u>FSL</u> <u>2400</u> Feet	FEL/FWL <u>FEL</u>	Bottom Hole: <u>2180</u> Feet
FNL/FSL <u>FSL</u> <u>2400</u> Feet	FEL/FWL <u>FEL</u>	FNL/FSL <u>FSL</u> <u>2400</u> Feet	FEL/FWL <u>FEL</u>
Sec: <u>18</u>	Twp: <u>2N</u>	Rng: <u>68W</u>	Sec: <u>6</u>
Twp: <u>2N</u>	Rng: <u>68W</u>	Sec: <u>6</u>	Twp: <u>2N</u>
Rng: <u>68W</u>	Sec: <u>6</u>	Twp: <u>2N</u>	Rng: <u>68W</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 type="checkbox"/> is the mineral owner beneath the location.			
(check all that apply) <input type="checkbox"/> is committed to an Oil and Gas Lease.			
<input 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>No</u>			
The right to construct the Oil and Gas Location is granted by: <u>Surface Use Agreement</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.)

T2N-R68W- Section 6: SE1/4

Total Acres in Described Lease: 160 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: 1629 Feet  
Building Unit: 1736 Feet  
High Occupancy Building Unit: 5280 Feet  
Designated Outside Activity Area: 5280 Feet  
Public Road: 2395 Feet  
Above Ground Utility: 2145 Feet  
Railroad: 5280 Feet  
Property Line: 211 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: 455 Feet

Distance from Completed Portion of Wellbore to Nearest Unit Boundary 460 Feet (Enter 5280 for distance greater than 1 mile.)

Federal or State Unit Name (if appl): \_\_\_\_\_ Unit Number: \_\_\_\_\_

## SPACING & FORMATIONS COMMENTS

Proposed Spacing Unit:

E2W2 & W2E2 of Section 18; E2W2 & W2E2 of Section 7; E2SW, W2SE & SWNE of Section 6 in Township 2 North, Range 68 West

## OBJECTIVE FORMATIONS

Objective Formation(s)	Formation Code	Spacing Order Number(s)	Unit Acreage Assigned to Well	Unit Configuration (N/2, SE/4, etc.)
CODELL	CODL		840	GWA

## DRILLING PROGRAM

Proposed Total Measured Depth: 20406 Feet

Distance from the proposed wellbore to nearest existing or proposed wellbore belonging to another operator, including plugged wells:

Enter distance if less than or equal to 1,500 feet: 455 Feet  No well belonging to another operator within 1,500 feet

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? Yes

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 318A

## DRILLING WASTE MANAGEMENT PROGRAM

Drilling Fluids Disposal: OFFSITE Drilling Fluids Disposal Methods: Commercial Disposal

Cuttings Disposal: OFFSITE Cuttings Disposal Method: Commercial Disposal

Other Disposal Description:

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	42	0	80	100	80	0
SURF	12+1/4	9+5/8	36	0	1500	400	1500	0
1ST	8+1/2	5+1/2	20	0	20406	2755	20406	1500

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 Both the "Distance from the completed portion of the proposed wellbore to the nearest completed portion of an offset wellbore permitted or completed in the same formation" on the spacing & formation tab was measured to the Williams 33 -18 and the "Distance from the proposed wellbore to the nearest existing or proposed wellbore belonging to another operator" on the drilling & waste plans tab are measured to Top Operating's Powell 1 well. Distances were measured in 2D via COGCC GIS mapping.

The surface owner has waived Rules 318A.a. & 318A.c. in the SUA, highlighted on page 6 of the attached SUA.

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

Location ID: 455340

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: Kelsi Welch

Title: Regulatory Analyst Date: \_\_\_\_\_ Email: kwelch@extractionog.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: \_\_\_\_\_

<b>API NUMBER</b>
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

## Best Management Practices

No	<u>BMP/COA Type</u>	<u>Description</u>
1	Drilling/Completion Operations	Operator acknowledges and will comply with COGCC policy for Bradenhead Monitoring during Hydraulic Fracturing treatments in the Greater Wattenberg Area dated May 29, 2012.
2	Drilling/Completion Operations	Anti-collision: Operator will perform an anti-collision evaluation of all active (producing, shut in, or temporarily abandoned) offset wellbores that have the potential of being within 150 feet of a proposed well prior to drilling operations for the proposed well. Notice shall be given to all offset operators prior to drilling.
3	Drilling/Completion Operations	317.p One of the first wells drilled on the pad will be logged with open-hole Resistivity Log and Gamma Ray Log from the kick-off point into the surface casing. All wells on the pad will have a cement bond log with gamma-ray run on production casing (or on intermediate casing if production liner is run) into the surface casing. The horizontal portion of every well will be logged with a measured-while-drilling gamma-ray log. 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" and shall clearly identify (by API#, well name & number) the well in which open-hole logs were run.

Total: 3 comment(s)

### Applicable Policies and Notices to Operators

Notice Concerning Operating Requirements for Wildlife Protection.  
[http://cogcc.state.co.us/documents/reg/Policies/Wildlife\\_Notice.pdf](http://cogcc.state.co.us/documents/reg/Policies/Wildlife_Notice.pdf)

### Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
401616726	FORM 2 SUBMITTED
401646402	FORM 2 SUBMITTED
401646403	FORM 2 REJECTED
401650492	DEVIATED DRILLING PLAN
401650497	DIRECTIONAL DATA
401650571	SURFACE AGRMT/SURETY
401650574	EXCEPTION LOC REQUEST
401742637	OffsetWellEvaluations Data
401742663	WELL LOCATION PLAT
401742672	PROPOSED SPACING UNIT

Total Attach: 10 Files

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
		Stamp Upon Approval

Total: 0 comment(s)

**Public Comments**

No public comments were received on this application during the comment period.

**RE-SUBMITTED**