

FORM 2 Rev 08/16	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: 401621790 (REJECTED) Date Received: 04/30/2018
APPLICATION FOR PERMIT TO:			
<input checked="" type="checkbox"/> Drill <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>Rinn Valley East</u>		Well Number: <u>N17-20-11N</u>	
Name of Operator: <u>EXTRACTION OIL & 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>			
RECLAMATION FINANCIAL ASSURANCE			
Plugging and Abandonment Bond Surety ID: <u>20130028</u>			
WELL LOCATION INFORMATION			
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>-105.038374</u>	
Footage at Surface: <u>198</u> Feet		FNL/FSL <u>FSL</u> <u>477</u> Feet	FEL/FWL <u>FEL</u>
Field Name: <u>WATTENBERG</u>		Field Number: <u>90750</u>	
Ground Elevation: <u>4937</u>		County: <u>WELD</u>	
GPS Data:			
Date of Measurement: <u>01/30/2018</u>		PDOP Reading: <u>1.2</u>	Instrument Operator's Name: <u>Travis Winnicki</u>
If well is <input type="checkbox"/> Directional <input checked="" type="checkbox"/> Horizontal (highly deviated) submit deviated drilling plan.			
Footage at Top of Prod Zone: <u>460</u> Feet		FNL/FSL <u>FSL</u> <u>2080</u> Feet	FEL/FWL <u>FEL</u>
Bottom Hole: <u>460</u> Feet		FNL/FSL <u>FNL</u> <u>2080</u> Feet	FEL/FWL <u>FEL</u>
Sec: <u>17</u>	Twp: <u>2N</u>	Rng: <u>68W</u>	Sec: <u>8</u> Twp: <u>2N</u> Rng: <u>68W</u>
LOCATION SURFACE & MINERALS & RIGHT TO CONSTRUCT			
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.)

Township 2 North, Range 68 West, 6th P.M.
Section 17: S2SW, NWSW, SWSE, except tract of land as conveyed by deed recorded in book 1145, Page 426 of Weld County Records.
Section 20: N2NW, NWNE, and those parts of the NESW, the SWNE, and the SENW lying North and West of the Plumb and Dailey Ditch.

Total Acres in Described Lease: 305 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: 1967 Feet
Building Unit: 2088 Feet
High Occupancy Building Unit: 5280 Feet
Designated Outside Activity Area: 5280 Feet
Public Road: 2403 Feet
Above Ground Utility: 2464 Feet
Railroad: 5280 Feet
Property Line: 198 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: 320 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

Approved DSU: Township 2 North, Range 68 West, 6th P.M.
Section 8: All
Section 17: All

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	407-1968	1280	GWA

DRILLING PROGRAM

Proposed Total Measured Depth: 17850 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: 648 Feet No well belonging to another operator within 1,500 feet

Will a closed-loop drilling system be used? Yes

Is H₂S gas reasonably expected to be encountered during drilling operations at concentrations greater than or equal to 100 ppm? No (If Yes, attach an H₂S 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	17850	2382	17850	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 The distance to the completed portion of the nearest well on the "Spacing & Formations" tab was measured to the proposed Extraction's proposed Rinn Valley East N17-20-11N in 2D via COGCC GIS Mapping. The distance to the closest well belonging to another operator on the "Drilling & Waste Plans" tab was measured to Crestone's File 4-2-17 well in 3D via the via the anti-collision report (attached as "other") because when measured in 2D, it appears that there are no wells belonging to another operator within 1500'

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: Kelsi Welch

Title: Regulatory Analyst Date: 4/30/2018 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: _____

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

Best Management Practices

No	<u>BMP/COA Type</u>	<u>Description</u>
1	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.
2	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.
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

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
401621790	FORM 2 SUBMITTED
401623243	OffsetWellEvaluations Data
401623254	WELL LOCATION PLAT
401623261	DEVIATED DRILLING PLAN
401623269	DIRECTIONAL DATA
401623271	OTHER
401623272	SURFACE AGRMT/SURETY
401623275	EXCEPTION LOC REQUEST

Total Attach: 8 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.

REJECTED