

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:
10/20/2014

Well Name: Nelson Farms Well Number: 4

Name of Operator: EXTRACTION OIL & GAS LLC COGCC Operator Number: 10459

Address: 1888 SHERMAN ST #200

City: DENVER State: CO Zip: 80203

Contact Name: Kaleb Roush Phone: (720)557-8322 Fax: ()

Email: kroush@extractionog.com

RECLAMATION FINANCIAL ASSURANCE
Plugging and Abandonment Bond Surety ID: 20130028

WELL LOCATION INFORMATION

QtrQtr: NWNW Sec: 28 Twp: 7N Rng: 67W Meridian: 6

Latitude: 40.550378 Longitude: -104.906392

Footage at Surface: <u>788</u> feet	FNL/FSL FNL <u>409</u> feet	FEL/FWL FWL
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Field Name: WATTENBERG Field Number: 90750

Ground Elevation: 4972 County: WELD

GPS Data:
Date of Measurement: 04/25/2014 PDOP Reading: 1.7 Instrument Operator's Name: Alan Hrizdo

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
<u>551</u> FNL <u>460</u> FWL		<u>564</u> FNL <u>2555</u> FWL
Sec: <u>28</u> Twp: <u>7N</u> Rng: <u>67W</u>		Sec: <u>27</u> Twp: <u>7N</u> Rng: <u>67W</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: oil and gas lease

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 7 NORTH, RANGE 67 WEST, 6TH P.M.

SECTION 28: Part of the Northwest Quarter (NW/4) in Section 28, Township 7 North, Range 67 West, estimated to contain 101.8 acres more or less.

Total Acres in Described Lease: 102 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: 659 Feet

Building Unit: 659 Feet

High Occupancy Building Unit: 5280 Feet

Designated Outside Activity Area: 5280 Feet

Public Road: 390 Feet

Above Ground Utility: 343 Feet

Railroad: 5280 Feet

Property Line: 450 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: 05/13/2014

SPACING and UNIT INFORMATION

Distance from Completed Portion of Wellbore to Nearest Wellbore Permitted or Completed in the same formation: 30 Feet

Distance from Completed Portion of Wellbore to Nearest Unit Boundary 409 Feet (Enter 5280 for distance greater than 1 mile.)

Federal or State Unit Name (if appl): _____ Unit Number: _____

SPACING & FORMATIONS COMMENTS

Distance from Completion portion of wellbore to nearest wellbore permitted or completed in the same formation is Lake-4-27 API #05-123-35687.

CODELL: Proposed Spacing Unit is N/2N/2 of Sec 28, and NWNW, NENW, NWNE of SEC 27.

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		280	GWA

DRILLING PROGRAM

Proposed Total Measured Depth: 14848 Feet

Distance to nearest permitted or existing wellbore penetrating objective formation: 30 Feet (Including plugged wells)

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? 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 318A

DRILLING WASTE MANAGEMENT PROGRAM

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

Cuttings Disposal: OFFSITE Cuttings Disposal Method: Other

Other Disposal Description:

Cuttings will be disposed of by land spreading.

Beneficial reuse or land application plan submitted? No

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
SURF	13+1/2	9+5/8	36	0	797	425	797	0
1ST	8+3/4	7	26	0	7513	925	7513	0
1ST LINER	6+1/8	4+1/2	13.5	7500	14848			

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 Operator proposes to sidetrack a well in Section 28, Township 7 North, Range 67 West in Weld County, Colorado as follows:

SHL: 788' FNL 409' FWL - falls outside a legal GWA Drilling Window
Top of Production: 650' FNL 460' FWL
BHL: 663' FNL 2555 FWL - falls outside a legal GWA Drilling Window

Operator intends to drill the well to the Codell formation at 14,848' MD and 7,423' TVD.

See CORRESPONDENCE attachment for REQUIRED OPERATOR COMMENTS for UNPLANNED Sidetrack While Drilling. The pertinent comments are as follows:

"We are having an issue on the Nelson Farms 4 (API# - 05-123-4004-00). We drilled our curve and set 7" casing. The build rates at the end of the curve were significantly greater than expected, resulting in an inclination of 95 degrees.

This well was planned as a Codell. With the combination of higher than expected build rates and a strong down-dipping formation structure, we have not been able to get into the Codell yet. We have drilled to 10,419'. Here is a visual explanation of what we have seen so far: (see correspondence attachment)

We have spent too much time out of zone and need to sidetrack.

I would like to open hole sidetrack, if the State will allow it. Tentatively, I am planning to open hole sidetrack about 100' out of the shoe. We will cement this liner after sidetrack is complete and drilled to TD."

This application is in a Comprehensive Drilling Plan _____ CDP #: _____

Location ID: 438262

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: Kaleb Roush

Title: Drilling Technician Date: 10/20/2014 Email: kroush@extractionog.com

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: 10/24/2014

Expiration Date: 10/23/2016

API NUMBER
05 123 40004 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.

COA Type

Description

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

Best Management Practices

No BMP/COA Type

Description

<u>No BMP/COA Type</u>	<u>Description</u>

Applicable Policies and Notices to Operators

Notice Concerning Operating Requirements for Wildlife Protection.

Policy for Bradenhead Monitoring During Hydraulic Fracturing Treatments in the Greater Wattenberg Area.

Attachment Check List

Att Doc Num

Name

<u>Att Doc Num</u>	<u>Name</u>
400711511	FORM 2 SUBMITTED
400711581	CORRESPONDENCE
400712248	DEVIATED DRILLING PLAN
400712311	WELLBORE DIAGRAM

Total Attach: 4 Files

General Comments

User Group

Comment

Comment Date

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Final Review Completed. No LGD or public comment received.	10/21/2014 10:03:53 AM
Permit	Unplanned Sidetrack for 123-40004-00 Nelson 4 well. Added location ID # 438262. Anti-Collision waiver on original. ok to pass.	10/20/2014 3:14:16 PM
Permit	Deviated drilling plan not necessary. Operator added comments. This form passes completeness.	10/20/2014 3:06:34 PM
Permit	Returned to draft: Requesting Deviated Drilling plan and comments as to why the sidetrack is necessary.	10/20/2014 2:16:00 PM

Total: 4 comment(s)