

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:

401202564

Date Received:

02/06/2017

APPLICATION FOR PERMIT TO:

☒ Drill ☐ Deepen ☐ Re-enter ☐ Recomplete and Operate

TYPE OF WELL OIL ☒ GAS ☐ COALBED ☐ OTHER SIDETRACK

Refilling ☐

ZONE TYPE SINGLE ZONE ☒ MULTIPLE ZONES ☐ COMMINGLE ZONES ☐

Sidetrack ☒

Well Name: TC Country Club West

Well Number: C19-11

Name of Operator: EXTRACTION OIL & GAS LLC

COGCC Operator Number: 10459

Address: 370 17TH STREET SUITE 5300

City: DENVER State: CO Zip: 80202

Contact Name: Kamrin Ruder

Phone: (720)9747743

Fax: ()

Email: kruder@extractionog.com

RECLAMATION FINANCIAL ASSURANCE

Plugging and Abandonment Bond Surety ID: 20130028

WELL LOCATION INFORMATION

QtrQtr: SENE Sec: 8 Twp: 5N Rng: 66W Meridian: 6

Latitude: 40.414690

Longitude: -104.798690

Footage at Surface: 2446 Feet FNL 1195 Feet FEL

Field Name: WATTENBERG

Field Number: 90750

Ground Elevation: 4787

County: WELD

GPS Data:

Date of Measurement: 02/21/2014 PDOP Reading: 0.9 Instrument Operator's Name: C. Holmes

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

515 FNL 460 FWL 767 FNL 2480 FWL
Sec: 9 Twp: 5N Rng: 66W Sec: 11 Twp: 5N Rng: 66W

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: No

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.)

Please see the attached lease map. Lease is .363 acres.

Total Acres in Described Lease: 0 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: 1455 Feet

CULTURAL DISTANCE INFORMATION

Distance to nearest:

Building: 968 Feet
Building Unit: 1016 Feet
High Occupancy Building Unit: 2218 Feet
Designated Outside Activity Area: 5280 Feet
Public Road: 1176 Feet
Above Ground Utility: 1218 Feet
Railroad: 5280 Feet
Property Line: 409 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: 12 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 wellbore spacing unit:
Sec. 9-5N-66W: N/2
Sec. 10-5N-66W: N/2
Sec. 11-5N-66W: NW/4

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		800	GWA

DRILLING PROGRAM

Proposed Total Measured Depth: 20610 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: 12 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	100	80	100	0
SURF	12+1/4	9+5/8	36	0	1560	525	1560	0
1ST	7+7/8	5+1/2	20	0	20610	1971	20610	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	<p>Distance to nearest wellbore permitted/completed in the same formation: 12' (SRC GCC #41-10D) *Stimulation Setback Consent attached</p> <p>Distance to nearest wellbore penetrating the formation: 12' (SRC GCC #41-10D) *Stimulation Setback Cosent attached</p> <p>Surface owner has waived rules 318A.a. & 318A.C. in the SUA. Please see p.4 of the attached SUA.</p> <p>We drilled the Triple Creek Country Club C1-9-11. We were in the process of running casing and had gas come at us, at which point we broke circulation and got the gas out of the well. We then proceeded to weight our mud up to 12ppg and then started to pull casing out of the ground and do a reamer run. On the way out we ended up getting, what we believe is, differentially stuck. We can circulate but couldn't get free with our pull limitations. We spotted lighter density fluid and tried a couple remedies but with no success. We cut casing and decided to jar on it which was also to no avail. We currently have a fish in the ground which we believe is un retrievable. It is 5.5" 20# casing from 7498' to 11,700' (4202' total).</p> <p>With your permission we would like to pump a 750' cement plug right on top of the fish covering the interval (7490' to 6740'). We will then kick off and re-drill the curve and lateral portions of the well. We will keep the same bottom hole, but we won't steer back towards it till we clear the end of the fish at 11,700'. We will maintain sufficient separation while drilling by the fish.</p> <p>API # - 05-123-43504-00 Total MD Drilled - 20,590' Surface Casing - 9-5/8" 36# set at 1585' Proposed Fish - String of casing from 7498' to 11,700' (4202' total). Sidetrack plan: Side track at 6,900' and change targets to avoid fish until we clear it. Depth of Sidetrack- 6,900' MD Objective formation of sidetrack - Codell (same as APD) Proposed BHL - Sec 11 - TWP 5N 66W 767 FNL 2480 FWL (same as Approved) Email approval given by Diana Burn (2/5/2017)</p>
----------	--

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

Location ID: 436824

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: Kamrin Ruder

Title: Drilling Technician Date: 2/6/2017 Email: kruder@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:  Director of COGCC Date: 2/6/2017

Expiration Date: 02/05/2019

API NUMBER

05 123 43504 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

	Bradenhead tests shall be performed and reported according to the following schedule and Form 17 submitted within 10 days of each test: 1) Within 60 days of rig release and prior to stimulation or 2) If a delayed completion, 6-7 months after rig release and prior to stimulation. 3) Within 30 days after first production, as reported on Form 5A.
	1) Comply with Rule 317.j and provide cement coverage from the end of production casing to a minimum of 200' above Niobrara. Verify coverage with cement bond log. 2) Submit the Form 5 for the "00" wellbore, with the kick off plug annotated in the Stage Top Out/Remedial Cement tab, and include the cement job summary verification.

Best Management Practices

No BMP/COA Type

Description

--	--	--

Applicable Policies and Notices to Operators

Policy
Notice Concerning Operating Requirements for Wildlife Protection. http://cogcc.state.co.us/documents/reg/Policies/Wildlife_Notice.pdf
Policy for Bradenhead Monitoring During Hydraulic Fracturing Treatments in the Greater Wattenberg Area. http://cogcc.state.co.us/documents/reg/Policies/PolicyGwaBradenheadMonitoringFinal.pdf

Attachment Check List

Att Doc Num

Name

401202564	FORM 2 SUBMITTED
401202590	CORRESPONDENCE
401202740	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

User Group

Comment

Comment Date

Permit	This is an unplanned sidetrack for the TC Country Club West C19-11 (API# 123-43504-00). Final Review Completed.	02/06/2017
Engineer	Offset Wells Evaluated with the original APD.	02/06/2017
Permit	LGD and public comment periods waived by COGCC Staff. Comment periods do not apply to this application for an unplanned Sidetrack or Rig Skid when drilling is in progress.	02/06/2017
Permit	Passed Completeness.	02/06/2017

Total: 4 comment(s)