

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: 400848951 (REJECTED) Date Received: 07/14/2015																																
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>Critter Creek</u> Well Number: <u>539-1807H</u>																																		
Name of Operator: <u>EOG RESOURCES INC</u> COGCC Operator Number: <u>27742</u>																																		
Address: <u>600 17TH ST STE 1100N</u>																																		
City: <u>DENVER</u> State: <u>CO</u> Zip: <u>80202</u>																																		
Contact Name: <u>Kyle Pedlar</u> Phone: <u>(303)2629906</u> Fax: ()																																		
Email: <u>kyle_pedlar@eogresources.com</u>																																		
RECLAMATION FINANCIAL ASSURANCE Plugging and Abandonment Bond Surety ID: <u>20030058</u>																																		
WELL LOCATION INFORMATION QtrQtr: <u>SWSW</u> Sec: <u>18</u> Twp: <u>11N</u> Rng: <u>63W</u> Meridian: <u>6</u> Latitude: <u>40.917217</u> Longitude: <u>-104.480731</u> <table style="width:100%; border: none;"> <tr> <td style="text-align: center;">Footage at Surface:</td> <td style="text-align: center;"><u>800</u></td> <td style="text-align: center;">feet</td> <td style="text-align: center;">FNL/FSL</td> <td style="text-align: center;"><u>1274</u></td> <td style="text-align: center;">feet</td> <td style="text-align: center;">FEL/FWL</td> <td style="text-align: center;"><u>FWL</u></td> </tr> </table> Field Name: <u>HEREFORD</u> Field Number: <u>34200</u> Ground Elevation: <u>5339.7</u> County: <u>WELD</u> GPS Data: Date of Measurement: <u>03/27/2015</u> PDOP Reading: <u>1.6</u> Instrument Operator's Name: <u>Jared Christopher, D.W.</u> If well is <input type="checkbox"/> Directional <input checked="" type="checkbox"/> Horizontal (highly deviated) submit deviated drilling plan. <table style="width:100%; border: none;"> <tr> <td style="text-align: center;">Footage at Top of Prod Zone:</td> <td style="text-align: center;">FNL/FSL</td> <td style="text-align: center;">FEL/FWL</td> <td style="text-align: center;">Bottom Hole:</td> <td style="text-align: center;">FNL/FSL</td> <td style="text-align: center;">FEL/FWL</td> </tr> <tr> <td style="text-align: center;"><u>1151</u></td> <td style="text-align: center;"><u>FSL</u></td> <td style="text-align: center;"><u>1408</u></td> <td style="text-align: center;"><u>600</u></td> <td style="text-align: center;"><u>FNL</u></td> <td style="text-align: center;"><u>1575</u></td> </tr> <tr> <td style="text-align: center;"><u>FWL</u></td> </tr> <tr> <td style="text-align: center;">Sec: <u>18</u></td> <td style="text-align: center;">Twp: <u>11N</u></td> <td style="text-align: center;">Rng: <u>63W</u></td> <td style="text-align: center;">Sec: <u>7</u></td> <td style="text-align: center;">Twp: <u>11N</u></td> <td style="text-align: center;">Rng: <u>63W</u></td> </tr> </table>			Footage at Surface:	<u>800</u>	feet	FNL/FSL	<u>1274</u>	feet	FEL/FWL	<u>FWL</u>	Footage at Top of Prod Zone:	FNL/FSL	FEL/FWL	Bottom Hole:	FNL/FSL	FEL/FWL	<u>1151</u>	<u>FSL</u>	<u>1408</u>	<u>600</u>	<u>FNL</u>	<u>1575</u>	<u>FWL</u>	<u>FWL</u>	<u>FWL</u>	<u>FWL</u>	<u>FWL</u>	<u>FWL</u>	Sec: <u>18</u>	Twp: <u>11N</u>	Rng: <u>63W</u>	Sec: <u>7</u>	Twp: <u>11N</u>	Rng: <u>63W</u>
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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>Yes</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.)

Lease #1

Lessor: Brain Farrington, a married man dealing in his sole and separate property

Original Lessee: Exterra Resources, LLC

Current Lessee: EOG Resources, Inc.

Legal Description: Township 11 North – Range 63 West, 6th P.M.

Section 18: NE4, Lot 2(40.40) and SENW, Lots 3(40.30) and 4 (40.19) and the E2SW4 (a/k/a SW4)

Section 27: NE

Township 11 North, Range 64 West, of the 6th P.M.

Section 14: S/2

Containing 880.89 acres more or less

Total Acres in Described Lease: 880 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: 600 Feet

CULTURAL DISTANCE INFORMATION

Distance to nearest:

Building: 1193 Feet
Building Unit: 1253 Feet
High Occupancy Building Unit: 5280 Feet
Designated Outside Activity Area: 5280 Feet
Public Road: 789 Feet
Above Ground Utility: 831 Feet
Railroad: 5280 Feet
Property Line: 800 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: 104 Feet

Distance from Completed Portion of Wellbore to Nearest Unit Boundary 600 Feet (Enter 5280 for distance greater than 1 mile.)

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

SPACING & FORMATIONS COMMENTS

Unit Configuration Section 18 T11N R63W ALL, Section 7 T11N R63W ALL
Docket 150300081 to be heard July 2015

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		1280	SEE ABOVE

DRILLING PROGRAM

Proposed Total Measured Depth: 16799 Feet

Distance to nearest permitted or existing wellbore penetrating objective formation: 104 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? 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 609

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	20	16	42	0	60	50	60	0
SURF	13+1/2	9+5/8	36	0	1551	460	1551	0
1ST	8+3/4	5+1/2	17	0	16799	1317	16799	0

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 _____

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: Kyle Pedlar _____

Title: Regulatory Assistant Date: 7/14/2015 Email: kyle_pedlar@eogresources.co

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

Drilling/Completion Operations	1) Submit Form 42 electronically to COGCC 48 hours prior to MIRU. 2) Comply with Rule 317.j and provide cement coverage from TD to a minimum of 200' above the Niobrara. Verify coverage with cement bond log. 3) Comply with Rule 321. Run and submit Directional Survey from TD to base of surface casing. Ensure that the wellbore complies with setback requirements in commission orders or rules prior to producing the well.
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Best Management Practices

No	BMP/COA Type	Description
1	Drilling/Completion Operations	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.
2	Drilling/Completion Operations	<p>Anti-collision: EOG Resources, Inc. will perform an anti-collision evaluation of all active (producing, shut in or temporarily abandoned) offset well bores 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.</p> <p>Prior to drilling operations, EOG will perform an anti-collision review of existing offset wells that have the potential of being within close proximity of the proposed well. This anti-collision review may include MWD or gyro surveys of the offset wells with included error of uncertainty per survey instrument and compared against the proposed well path with its respective error of uncertainty. If the current surveys do not exist for the offset wells, EOG may have gyro surveys conducted to verify bottom hole location. EOG may also perform IFR (In Field Reference) to increase survey accuracy. The proposed well will only be drilled if the anti-collision review results indicate that the risk of collision is sufficiently low as defined by the anti-collision plan, with separation factors greater than 1.5 or if the risk of collision has been mitigated through other means including shutting in wells, pugging wells, increased drilling fluid in the event of lost returns or as appropriate for the specific situation. In the event of an increased risk of collision, that risk will be mitigated to prevent harm to people, environment or property. A MWD directional survey for the proposed well will be submitted to the COGCC with Form 5 upon completion of drilling operations.</p>

Total: 2 comment(s)

Applicable Policies and Notices to Operators

Notice Concerning Operating Requirements for Wildlife Protection.

Attachment Check List

Att Doc Num	Name
400848951	FORM 2 SUBMITTED
400867720	OffsetWellEvaluations Data
400867849	DEVIATED DRILLING PLAN
400867852	SURFACE AGRMT/SURETY
400867853	DRILLING PLAN
400867854	WELL LOCATION PLAT
400867855	DIRECTIONAL DATA

Total Attach: 7 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit (Rejected)	This application is being rejected through the COGCC rejection process in order for the operator to revise data fields. Consultation with COGCC staff and the operator have resulted in concurrence that this APD should be rejected.	8/12/2015 1:57:12 PM
Engineer	The planned and surveyed wellbore paths, when projected to the surface have a separation of zero feet where they cross. Anti collision analysis is required and the BMP was included with this submittal. Changed "Distance to nearest permitted or existing wellbore penetrating the existing formation" to zero. Evaluated offset wells.	8/10/2015 4:17:10 PM
Permit	Corrected "Deviated Drilling Plan" and "Directional Data" labels. Passed completeness.	7/20/2015 9:53:08 AM
Permit	Missing related 2A on 'Related Forms' tab. Return to draft.	7/17/2015 8:20:35 AM

Total: 4 comment(s)