

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:
400862504
(SUBMITTED)

APPLICATION FOR PERMIT TO:

Drill Deepen Re-enter Recomplete and Operate

Date Received:
07/02/2015

TYPE OF WELL OIL GAS COALBED OTHER _____
ZONE TYPE SINGLE ZONE MULTIPLE ZONES COMMINGLE ZONES

Refilling
Sidetrack

Well Name: MCU Well Number: 7010B-10 M02893
Name of Operator: ENCANA OIL & GAS (USA) INC COGCC Operator Number: 100185
Address: 370 17TH ST STE 1700
City: DENVER State: CO Zip: 80202-5632
Contact Name: Jason Eckman Phone: (970)285-2656 Fax: ()
Email: Jason.Eckman@encana.com

RECLAMATION FINANCIAL ASSURANCE

Plugging and Abandonment Bond Surety ID: 20100017

WELL LOCATION INFORMATION

QtrQtr: SWSW Sec: 2 Twp: 8S Rng: 93W Meridian: 6
Latitude: 39.386999 Longitude: -107.746208

Footage at Surface: 507 feet FNL/FSL FSL 1258 feet FEL/FWL FWL

Field Name: MAMM CREEK Field Number: 52500

Ground Elevation: 7770 County: GARFIELD

GPS Data:
Date of Measurement: 06/18/2015 PDOP Reading: 1.4 Instrument Operator's Name: B. Taggart

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
2136 FSL 1321 FEL 2136 FSL 1321 FEL
Sec: 10 Twp: 8S Rng: 93W Sec: 10 Twp: 8S Rng: 93W

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.)

BHL Federal Lease Description:
COC 52814
Township 8 South, Range 93 West, 6th P.M.
Section 4: Lots 6-11, 13, 14, 15, SWNE, S2NW, S2 (All)
Section 5: Lot 5
Section 8: Lots 1, 2, 3, NENE, S2N2, S2
Section 9: All
Section 10: Lots 1-4, W2E2, W2 (All)
Section 14: SESE
Section 15: Lots 1, 2, W2NE, N2, S2 (All)

Total Acres in Described Lease: 3318 Described Mineral Lease is: Fee State Federal Indian

Federal or State Lease # 52814

Distance from Completed Portion of Wellbore to Nearest Lease Line of described lease: 1321 Feet

CULTURAL DISTANCE INFORMATION

Distance to nearest:

Building: 5280 Feet
Building Unit: 5280 Feet
High Occupancy Building Unit: 5280 Feet
Designated Outside Activity Area: 5280 Feet
Public Road: 5280 Feet
Above Ground Utility: 5280 Feet
Railroad: 5280 Feet
Property Line: 1209 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: 2378 Feet

Distance from Completed Portion of Wellbore to Nearest Unit Boundary 3480 Feet (Enter 5280 for distance greater than 1 mile.)

Federal or State Unit Name (if appl): Middleton Creek Unit Number: COC68997X

SPACING & FORMATIONS COMMENTS

OBJECTIVE FORMATIONS

| Objective Formation(s) | Formation Code | Spacing Order Number(s) | Unit Acreage Assigned to Well | Unit Configuration (N/2, SE/4, etc.) |
|------------------------|----------------|-------------------------|-------------------------------|--------------------------------------|
| ILES | ILES | | | |
| WILLIAMS FORK | WMFK | | | |

DRILLING PROGRAM

Proposed Total Measured Depth: 12327 Feet

Distance to nearest permitted or existing wellbore penetrating objective formation: 2378 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 609

DRILLING WASTE MANAGEMENT PROGRAM

Drilling Fluids Disposal: ONSITE Drilling Fluids Disposal Methods: Other

Cuttings Disposal: ONSITE Cuttings Disposal Method: Other

Other Disposal Description:

Recycle & Bury

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 | 26 | 20 | 53.0 | 0 | 120 | 306 | 120 | 0 |
| SURF | 14+3/4 | 9+5/8 | 36.0 | 0 | 1760 | 1153 | 1760 | 0 |
| 1ST | 8+3/4 | 4+1/2 | 11.6 | 0 | 12327 | 1608 | 12327 | 3700 |

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: Kelly Hamden _____

Title: Regulatory Analyst Date: 7/2/2015 Email: Kelly.Hamden@encana.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.

Best Management Practices

| No | BMP/COA Type | Description |
|-----------|--------------------------------|---|
| 1 | General Housekeeping | <ul style="list-style-type: none"> • Strategically apply fugitive dust control measures, including enforce established speed limits on Encana private roads, to reduce fugitive dust and coating of vegetation and deposition in water sources. |
| 2 | Wildlife | <ul style="list-style-type: none"> • Perform biological surveys (on-site) for each new development, using the most recent data sets for wildlife and wetland resources. • Perform pre-disturbance surveys when the on-site inspection and commencement of disturbance occur in different field seasons using the most recent data sets for wildlife and wetland resources. • Minimize the number, length and footprint of oil & gas development roads and use existing access roads where possible. • Combine utility infrastructure planning (gas, electric & water) when possible with roadway planning to avoid separate utility corridors. |
| 3 | Dust control | <ul style="list-style-type: none"> • Strategically apply fugitive dust control measures, including enforcing established speed limits on Encana private roads, to reduce fugitive dust and coating of vegetation and deposition in water sources. |
| 4 | Construction | <ul style="list-style-type: none"> • Wattles, vegetation buffers, slash (If pad construction begins following snowfall, veg will be pushed to slash berm), Topsoil windrows (Diversion & ROPs), terminal containment, run-on protection, ECM (Erosion Control Mulch), check dams, seeding, mulching, stabilization of unpaved surface (gravel), stormwater & snow storage containment, culverts with inlet & outlet protection are all construction BMP's to be implemented at the proposed location during all seasons. • Use multiple gathering lines placed in a single trench to minimize disturbance and construction, where appropriate, economically and technically feasible. • Install pipeline crossings at right angles to the drainages, wetlands, and perennial water bodies, where appropriate, economically and technically feasible. • Maintain a minimum of five feet of soil cover between the pipeline and the lowest point of the drainage or water body channel. |
| 5 | Drilling/Completion Operations | <ul style="list-style-type: none"> • One of the first wells drilled on the pad will be logged with open-hole Resistivity Log and Gamma Ray Log from TD 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 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: 5 comment(s)

Attachment Check List

| Att Doc Num | Name |
|--------------------|------------------------|
| 400862504 | FORM 2 SUBMITTED |
| 400862508 | DEVIATED DRILLING PLAN |
| 400862512 | DIRECTIONAL DATA |
| 400862513 | DIRECTIONAL DATA |
| 400862514 | OTHER |
| 400862515 | WELL LOCATION PLAT |
| 400863152 | LEASE MAP |
| 400866395 | SURFACE AGRMT/SURETY |

Total Attach: 8 Files

General Comments

| <u>User Group</u> | <u>Comment</u> | <u>Comment Date</u> |
|-------------------|--|-------------------------|
| Permit | Casing information exceeds MD. Offset Well evaluation must be provided unless "No Offset Wells in 1500'" is denoted on the Offset Wells tab. Return to draft. | 7/15/2015 8:03:28 AM |
| Permit | Well location plat is mislabeled as "PLAT" File currently labeled as "DEVIATED DRILLING PLAN" is incorrect. Deviated Drilling Plan is mislabeled as "DIRECTIONAL DATA". Missing Surface Use Agreement attachment. Casing information only provided to 7500'; must provide information to Measure Depth (MD). Offset Well evaluation must be provided unless "No Offset Wells in 1500'" is denoted on the Offset Wells tab. Return to draft. | 7/10/2015 9:32:44 AM |

Total: 2 comment(s)

