

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:

400465012

### APPLICATION FOR PERMIT TO:

Drill       Deepen       Re-enter       Recomplete and Operate

Date Received:

08/22/2013

TYPE OF WELL    OIL     GAS     COALBED     OTHER \_\_\_\_\_

Refilling

ZONE TYPE    SINGLE ZONE     MULTIPLE ZONES     COMMINGLE ZONES

Sidetrack

Well Name: E

Well Number: 8810E-19 D30397

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: AMY HENLINE

Phone: (720)876-3364      Fax: ( )

Email: AMY.HENLINE@ENCANA.COM

### RECLAMATION FINANCIAL ASSURANCE

Plugging and Abandonment Bond Surety ID: \_\_\_\_\_

### WELL LOCATION INFORMATION

QtrQtr: Lot 1      Sec: 30      Twp: 3S      Rng: 97W      Meridian: 6

Latitude: 39.767108

Longitude: -108.330106

Footage at Surface:      79      feet      FNL/FSL      FNL      497      feet      FEL/FWL      FWL

Field Name: WILDCAT      Field Number: 99999

Ground Elevation: 7328      County: RIO BLANCO

GPS Data:

Date of Measurement: 03/29/2013    PDOP Reading: 2.5    Instrument Operator's Name: ROBERT KAY

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
<u>1329</u>	<u>FSL</u>	<u>1407</u>	<u>1329</u>	<u>FSL</u>	<u>1407</u>
		<u>FEL</u>			<u>FEL</u>
Sec: <u>19</u>	Twp: <u>3S</u>	Rng: <u>97W</u>	Sec: <u>19</u>	Twp: <u>3W</u>	Rng: <u>97W</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.)

COC 65559: T3S R97W 6TH PM  
 SEC 18 LOTS 3, 4, E2SW, SE  
 SEC 19 LOTS 1-4, NE, E2W2, N2SE, SWSE  
 SEC 20 E2, W2NW, SWSW  
 SEC 29 N2  
 SEC 30 LOTS 1-4, NWNE, E2NW  
 SEC 31 LOT 1, E2, SENW, E2SW

Total Acres in Described Lease: 2479 Described Mineral Lease is:  Fee  State  Federal  Indian

Federal or State Lease # COC65569

Distance from Completed Portion of Wellbore to Nearest Lease Line of described lease: 58 Feet

**CULTURAL DISTANCE INFORMATION**

Distance to nearest:

Building: 4310 Feet  
 Building Unit: 4310 Feet  
 High Occupancy Building Unit: 5280 Feet  
 Designated Outside Activity Area: 5280 Feet  
 Public Road: 298 Feet  
 Above Ground Utility: 4310 Feet  
 Railroad: 5280 Feet  
 Property Line: 2571 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: 272 Feet

Distance from Completed Portion of Wellbore to Nearest Unit Boundary 5344 Feet (Enter 5280 for distance greater than 1 mile.)

Federal or State Unit Name (if appl): BIG JIMMY UNIT Unit Number: COC74105X

**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.)
WILLIAMS FORK	WMFK			

**DRILLING PROGRAM**

Proposed Total Measured Depth: 12450 Feet

Distance to nearest permitted or existing wellbore penetrating objective formation: 272 Feet (Including plugged wells)

Will a closed-loop drilling system be used? Yes

Is H<sub>2</sub>S gas reasonably expected to be encountered during drilling operations at concentrations greater than or equal to 100 ppm? No (If Yes, attach an H<sub>2</sub>S 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: Recycle/reuse

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	LINE PIPE	0	120	176	120	0
SURF	12+1/4	9+5/8	36	0	2500	823	2500	0
1ST	7+7/8	4+1/2	11.6	0	12450	1582	12450	7235

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 size of the production hole is both 8-3/4" and 7-7/8". Conductor and surface cement will be run to surface. Production casing will be set to at least 200' above TOG.

COC 65559: T3S R97W 6TH PM  
SEC 18 LOTS 3, 4, E2SW, SE  
SEC 19 LOTS 1-4, NE, E2W2, N2SE, SWSE  
SEC 20 E2, W2NW, SWSW  
SEC 29 N2  
SEC 30 LOTS 1-4, NWNE, E2NW  
SEC 31 LOT 1, E2, SENW, E2SW

This application is in a Comprehensive Drilling Plan \_\_\_\_\_ CDP #: \_\_\_\_\_

Location ID: 418339

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: AMY HENLINE

Title: PERMITTING ANALYST Date: 8/22/2013 Email: AMY.HENLINE@ENCANA.CO

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: 10/10/2013

Expiration Date: 10/09/2015

### API NUMBER

05 103 12060 00

## 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

(1) COMPLIANCE WITH THE MOST CURRENT REVISION OF THE NORTHWEST COLORADO NOTIFICATION POLICY IS REQUIRED.

## Best Management Practices

### No BMP/COA Type

### Description

## Applicable Policies and Notices to Operators

NW Colorado Notification Policy.

Notice Concerning Operating Requirements for Wildlife Protection.

### Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
400465012	FORM 2 SUBMITTED
400465031	WELL LOCATION PLAT
400465033	FED. DRILLING PERMIT
400465034	DEVIATED DRILLING PLAN
400465035	DIRECTIONAL DATA
400465037	MINERAL LEASE MAP
400465039	TOPO MAP

Total Attach: 7 Files

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Final review completed. No LGD or public comments.	10/2/2013 7:59:16 AM
Permit	Changed lat/long to reflect the values on the Well location plat. Operatro used NAD 27 value and not NAD 83.	9/18/2013 1:19:41 PM
Engineer	THE PROPOSED SURFACE CASING IS MORE THAN 50' BELOW THE DEPTH OF THE DEEPEST WATER WELL WITHIN 1-MILE OF THE SURFACE LOCATION WHEN CORRECTED FOR ELEVATION DIFFERENCES. THE DEEPEST WATER WELL WITHIN 1-MILE IS 00 FEET DEEP.	8/30/2013 2:56:43 PM
Permit	Forom passes completeness.	8/26/2013 11:31:09 AM
Permit	No distance to unit boundary and Water well sampling required per Rule is unmarked. Returned to DRAFT.	8/23/2013 11:37:49 AM

Total: 5 comment(s)