



**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.)

T1S R99W S25: N2, SW, W2SE, SESE; S26: ALL; S27: E2, E2NW, NWNW; S36: E2, E2NW, SWNW, SW.

Total Acres in Described Lease: 2280 Described Mineral Lease is:  Fee  State  Federal  Indian

Federal or State Lease # COC64841

Distance from Completed Portion of Wellbore to Nearest Lease Line of described lease: 637 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: 369 Feet

Above Ground Utility: 5280 Feet

Railroad: 5280 Feet

Property Line: 637 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: 3944 Feet

Distance from Completed Portion of Wellbore to Nearest Unit Boundary 637 Feet (Enter 5280 for distance greater than 1 mile.)

Federal or State Unit Name (if appl): BUCKHORN DRAW

Unit Number: COC73788X

**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.)
CORCORAN-COZZETTE-ROLLINS	CRCZR			
SEGO	SEGO			
WILLIAMS FORK	WMFK			

**DRILLING PROGRAM**

Proposed Total Measured Depth: 10700 Feet

Distance to nearest permitted or existing wellbore penetrating objective formation: 3944 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 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   N/A  

### DRILLING WASTE MANAGEMENT PROGRAM

Drilling Fluids Disposal:   ONSITE        Drilling Fluids Disposal Methods:   Evaporation  

Cuttings Disposal:   ONSITE        Cuttings Disposal Method:   Cuttings trench  

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		0	100		100	0
SURF	12+1/4	9+5/8	40	0	2500	577	2500	0
1ST	7+7/8	4+1/2	11.6	0	10700	1160	10700	5400

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 Form 2 for the proposed well has been refiled twice and expired once. The current Form 2 for the subject well expires on 1/30/15. The Form 2A for this well was recently approved on 11/7/14. The only change to the original design was the pad was enlarged slightly to accommodate a high volume frac and had to be moved slightly to maintain a minimum buffer from a previously-identified cultural site and to continue to avoid a drainage.

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

Location ID: 419821

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: Patricia Kacerguis

Title: Sr VP Land & Admin Date: 11/13/2014 Email: dcesark@mesa-energy.net

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: 12/6/2014

Expiration Date: 12/05/2016

### API NUMBER

05 103 11811 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) Operator shall comply with the most current revision of the Northwest Notification Policy. See attached notice.  (2) Operator shall provide cement coverage from the production casing shoe (4+1/2" First String) to a minimum of 200' above all Mesa Verde Group (and Ohio Creek Formation, if present) oil, gas, and water-bearing sandstone and coalbed formations. Verify production casing cement coverage with a cement bond log.
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## Best Management Practices

### No BMP/COA Type

### Description

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## 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>
400728256	FORM 2 SUBMITTED
400731311	WELL LOCATION PLAT
400731322	ACCESS ROAD MAP

Total Attach: 3 Files

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Removed plugging bond due to federal minerals and notified opr. Waste disposal is to a trench.	12/4/2014 9:09:24 AM
Engineer	Evaluated offset wells within 1500 feet. No mitigation required. There are no water wells within one mile of the surface location. There is one water well permit that was denied.	11/19/2014 2:13:30 PM
Permit	Passed Completeness	11/14/2014 12:07:06 PM

Total: 3 comment(s)