



## 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.)

See attached lease map. This well is located within the Henderson drilling and spacing unit.

Total Acres in Described Lease: 540 Described Mineral Lease is:  Fee  State  Federal  Indian

Federal or State Lease # COC13484

Distance from Completed Portion of Wellbore to Nearest Lease Line of described lease: 14 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: 1780 Feet  
Above Ground Utility: 5280 Feet  
Railroad: 5280 Feet  
Property Line: 2745 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: 116 Feet

Distance from Completed Portion of Wellbore to Nearest Unit Boundary 683 Feet (Enter 5280 for distance greater than 1 mile.)

Federal or State Unit Name (if appl): Henderson DSU Unit Number: \_\_\_\_\_

## SPACING & FORMATIONS COMMENTS

Order 547-1 established a 2,240 acre drilling and spacing unit in Sections 9, 15, 16 and N/2 of 22 all in T11S, R90W.

## OBJECTIVE FORMATIONS

Objective Formation(s)	Formation Code	Spacing Order Number(s)	Unit Acreage Assigned to Well	Unit Configuration (N/2, SE/4, etc.)
MANCOS	MNCS	547-1	2240	9,15,16-ALL, 22N2

## DRILLING PROGRAM

Proposed Total Measured Depth: 13273 Feet

Distance from proposed wellbore to nearest existing or permitted wellbore belonging to another operator:

6962 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: 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	26	20	106.5	0	80	137	80	0
SURF	16	13+3/8	54.5	0	400	180	400	0
1ST	12+1/4	9+5/8	40	0	5500	1247	5500	0
2ND	8+1/2	5+1/2	20	0	13273	1366	13273	5200

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

There have been no changes to the surrounding land use.  
There have been no changes to the well construction plan.  
The mineral lease description and map have been updated to include total acres in the lease.  
This well pad has been built. No drilling is currently taking place at the well site.  
The surface location has changed slightly so that all wells on the pad have a consistent 15' spacing apart.  
Nearest wellbore belonging to another operator is the Pasco (Spadafora) #1.  
Distance to nearest completed portion of offset wellbore permitted or completed in the same formation is 116'. This is the distance to the top of productive horizon for SG's permitted well going in the opposite direction (Federal 11-90-15 #4).  
There is no intent in this case to create interference between the two wells. The perms are currently planned to be a minimum of 600' apart from horizontal to horizontal and could be further upon final frac stage design.  
The casing and cementing program has been updated.  
The estimated top of production footages have been corrected.  
No other changes have been made.  
Attached is the original Federal APD submittal. The final Federal APD approval has not yet been received.

This application is in a Comprehensive Drilling Plan No CDP #: \_\_\_\_\_

Location ID: 324491

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: Catherine Dickert

Title: Env & Permitting Manager Date: 3/16/2016 Email: cdickert@sginterests.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

05 051 06129 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**

COA Type	Description

## Best Management Practices

<b>No</b>	<b>BMP/COA Type</b>	<b>Description</b>
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 kickoff point into the surface casing. All wells on the pad will have a cement bond log with gamma-ray run on production casing from kickoff point (or on intermediate casing if production liner is run) into the surface casing or into the overlap between the production and intermediate casing in the event intermediate casing is run. The horizontal portion of a well from kickoff point to TD will be logged-while-drilling with a gamma ray tool. 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: 1 comment(s)

## Applicable Policies and Notices to Operators

Policy
Notice Concerning Operating Requirements for Wildlife Protection. <a href="http://cogcc.state.co.us/documents/reg/Policies/Wildlife_Notice.pdf">http://cogcc.state.co.us/documents/reg/Policies/Wildlife_Notice.pdf</a>

## Attachment Check List

<b>Att Doc Num</b>	<b>Name</b>
400983754	FORM 2 SUBMITTED
400983920	FED. DRILLING PERMIT
401005060	WELL LOCATION PLAT
401005561	MINERAL LEASE MAP
401007322	OffsetWellEvaluations Data

Total Attach: 5 Files

## General Comments

<b>User Group</b>	<b>Comment</b>	<b>Comment Date</b>

Total: 0 comment(s)