

FORM  
2A

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:

401046577

Date Received:

05/24/2016

Oil and Gas Location Assessment

New Location     Refile     Amend Existing Location    Location#: \_\_\_\_\_

This Oil and Gas Location Assessment is to be submitted to the COGCC for approval prior to any ground disturbance activity associated with oil and gas operations. Approval of this Oil and Gas Location Assessment will allow for the construction of the below specified Location; however, it does not supersede any land use rules applied by the local land use authority. Please see the COGCC website at <http://cogcc.state.co.us/> for all accompanying information pertinent this Oil and Gas Location Assessment.

Location ID:

**447898**

Expiration Date:

**09/28/2019**

This location assessment is included as part of a permit application.

CONSULTATION

- This location is included in a Comprehensive Drilling Plan. CDP # \_\_\_\_\_
- This location is in a sensitive wildlife habitat area.
- This location is in a wildlife restricted surface occupancy area.
- This location includes a Rule 306.d.(1)A.ii. variance request.

Operator

Operator Number: 10520  
 Name: CRESCENT POINT ENERGY U.S. CORP  
 Address: 555 17TH STREET SUITE 1800  
 City: DENVER    State: CO    Zip: 80202

Contact Information

Name: Lauren MacMillan  
 Phone: (303) 382-6787  
 Fax: ( )  
 email: lmacmillan@crecidentpointenergy.com

RECLAMATION FINANCIAL ASSURANCE

- Plugging and Abandonment Bond Surety ID: 20150074     Gas Facility Surety ID: \_\_\_\_\_
- Waste Management Surety ID: \_\_\_\_\_

LOCATION IDENTIFICATION

Name: Anderson Facility    Number: 9-59-31-SESW  
 County: WELD  
 Quarter: SESW    Section: 31    Township: 9N    Range: 59W    Meridian: 6    Ground Elevation: 4878

Define a single point as a location reference for the facility location. When the location is to be used as a well site then the point shall be a well location.

Footage at surface: 890 feet FSL from North or South section line  
1844 feet FWL from East or West section line

Latitude: 40.701705    Longitude: -104.023666

PDOP Reading: 2.9    Date of Measurement: 02/24/2016

Instrument Operator's Name: Alec Shull

## RELATED REMOTE LOCATIONS

(Enter as many Related Locations as necessary. Enter the Form 2A document # only if there is no established COGCC Location ID#)

This proposed Oil and Gas Location is:	<u>LOCATION ID #</u>	<u>FORM 2A DOC #</u>
Production Facilities Location serves Well(s)	_____	401047210
	_____	401026465
	_____	401046218
	_____	401047449

## FACILITIES

Indicate the number of each type of oil and gas facility planned on location

Wells _____	Oil Tanks* _____ 48	Condensate Tanks* _____	Water Tanks* _____ 8	Buried Produced Water Vaults* _____
Drilling Pits _____	Production Pits* _____	Special Purpose Pits _____	Multi-Well Pits* _____	Modular Large Volume Tanks _____
Pump Jacks _____	Separators* _____ 34	Injection Pumps* _____	Cavity Pumps* _____	Gas Compressors* _____ 5
Gas or Diesel Motors* _____	Electric Motors _____	Electric Generators* _____	Fuel Tanks* _____	LACT Unit* _____ 2
Dehydrator Units* _____	Vapor Recovery Unit* _____ 4	VOC Combustor* _____ 14	Flare* _____	Pigging Station* _____

## OTHER FACILITIES\*

<u>Other Facility Type</u>	<u>Number</u>
Vapor Recovery Tower (VRT)	12
HP Gas Sales Building	2
Air compressor building & skid	1
Treater	2
MCC Building	1

\*Those facilities indicated by an asterisk (\*) shall be used to determine the distance from the Production Facility to the nearest cultural feature on the Cultural Setbacks Tab.

Per Rule 303.b.(3)C, description of all oil, gas, and/or water pipelines:

Flowlines: Total of thirty four (34), 4" steel emulsion pipelines and thirty four (34), 4" coated steel casing gas flowlines coming from proposed wells into the central production facility. During production, flow direction in the flowline is from the well head to the production facility.

Pipelines will be co-located adjacent to the access road ROW to minimize surface disturbance footprint. All displaced materials shall be placed back into pipeline ROW once construction is completed. Pipeline ROW will be reclaimed following construction.

One (1), 6" steel pipeline for oil sales leaving central production facility, one (1), 10" composite flexsteel or polyethylene pipeline for water disposal leaving facility, one (1), 12" steel gas pipeline leaving facility for gas sales, and one (1), 6" steel gas pipeline coming into facility for gas buy back.

## CONSTRUCTION

Date planned to commence construction: 02/01/2017      Size of disturbed area during construction in acres: 19.37  
 Estimated date that interim reclamation will begin: 08/01/2017      Size of location after interim reclamation in acres: 19.37  
 Estimated post-construction ground elevation: 4878

## DRILLING PROGRAM

Will a closed loop system be used for drilling fluids: \_\_\_\_\_  
 Is H<sub>2</sub>S anticipated? \_\_\_\_\_  
 Will salt sections be encountered during drilling: \_\_\_\_\_  
 Will salt based mud (>15,000 ppm Cl) be used? \_\_\_\_\_  
 Will oil based drilling fluids be used? \_\_\_\_\_

## DRILLING WASTE MANAGEMENT PROGRAM

Drilling Fluids Disposal: \_\_\_\_\_ Drilling Fluids Disposal Method: \_\_\_\_\_

Cutting Disposal: \_\_\_\_\_ Cuttings Disposal Method: \_\_\_\_\_

Other Disposal Description:

\_\_\_\_\_

Beneficial reuse or land application plan submitted? No

Reuse Facility ID: \_\_\_\_\_ or Document Number: \_\_\_\_\_

Centralized E&P Waste Management Facility ID, if applicable: \_\_\_\_\_

## SURFACE & MINERALS & RIGHT TO CONSTRUCT

Name: Mike Shull

Phone: 970-656-3639

Address: 53004 CR 100

Fax: \_\_\_\_\_

Address: \_\_\_\_\_

Email: \_\_\_\_\_

City: Grover State: CO Zip: 80729

Surface Owner:  Fee  State  Federal  Indian

Check all that apply. The Surface Owner:  is the mineral owner

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 from or produced to this Oil and Gas Location: No

The right to construct this Oil and Gas Location is granted by: Surface Use Agreement

Surface damage assurance if no agreement is in place: \_\_\_\_\_ Surface Surety ID: \_\_\_\_\_

Date of Rule 306 surface owner consultation 02/09/2016

## CURRENT AND FUTURE LAND USE

Current Land Use (Check all that apply):

Crop Land:  Irrigated  Dry land  Improved Pasture  Hay Meadow  CRP

Non-Crop Land:  Rangeland  Timber  Recreational  Other (describe): \_\_\_\_\_

Subdivided:  Industrial  Commercial  Residential

Future Land Use (Check all that apply):

Crop Land:  Irrigated  Dry land  Improved Pasture  Hay Meadow  CRP

Non-Crop Land:  Rangeland  Timber  Recreational  Other (describe): \_\_\_\_\_

Subdivided:  Industrial  Commercial  Residential

## CULTURAL DISTANCE INFORMATION

Provide the distance to the nearest cultural feature as measured from Wells or Production Facilities onsite.

	From WELL	From PRODUCTION FACILITY
Building:	_____ Feet	<u>5280</u> Feet
Building Unit:	_____ Feet	<u>5280</u> Feet

### INSTRUCTIONS:

- All measurements shall be provided from center of nearest Well or edge of nearest Production Facility to nearest of each cultural feature as described in Rule 303.b. (3)A.

- Enter 5280 for distance greater than 1 mile.

- Building - nearest building of any type. If

High Occupancy Building Unit:	_____	Feet	5280	Feet
Designated Outside Activity Area:	_____	Feet	5280	Feet
Public Road:	_____	Feet	4097	Feet
Above Ground Utility:	_____	Feet	5280	Feet
Railroad:	_____	Feet	5280	Feet
Property Line:	_____	Feet	266	Feet

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.  
 -For measurement purposes only, Production Facilities should only include those items with an asterisk(\*) on the Facilities Tab.

**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.  
 - Large UMA Facility – 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: \_\_\_\_\_

**FOR MULTI-WELL PADS AND PRODUCTION FACILITIES WITHIN DESIGNATED SETBACK LOCATIONS ONLY:**

- Check this box if this Oil and Gas Location has or will have Production Facilities that serve multiple wells (on or offsite) and the Production Facilities are proposed to be located less than 1,000 feet from a Building Unit. *(Pursuant to Rule 604.c.(2)E.i., the operator must evaluate alternative locations for the Production Facilities that are farther from the Building Unit, and determine whether those alternative locations were technically feasible and economically practicable for the same proposed development.)*
- By checking this box, I certify that no alternative placements for the Production Facilities, farther from the nearest Building Unit, were available based on the analysis conducted pursuant to Rule 604.c.(2)E.i.

In the space below, explain rationale for siting the multi-well Production Facility(ies) that supports your Rule 604.c.(2)E.i determination. Attach documentation that supports your determination to this Form 2A.

**SOIL**

List all soil map units that occur within the proposed location. attach the National Resource Conservation Service (NRCS) report showing the "Map Unit Description" report listing the soil typical vertical profile. This data is to used when segregating topsoil.

The required information can be obtained from the NRCS web site at <http://soildatamart.nrcs.usda.org/> or from the COGCC web site GIS Online map page found at <http://colorado.gov/cogcc>. Instructions are provided within the COGCC web site help section.

NRCS Map Unit Name: 31- Kim Mitchell complex, 0 to 6 percent slopes \_\_\_\_\_  
 NRCS Map Unit Name: \_\_\_\_\_  
 NRCS Map Unit Name: \_\_\_\_\_

**PLANT COMMUNITY:**

Complete this section only if any portion of the disturbed area of the location's current land use is on non-crop land.

Are noxious weeds present: Yes  No   
 Plant species from:  NRCS or,  field observation Date of observation: \_\_\_\_\_  
 List individual species: \_\_\_\_\_

Check all plant communities that exist in the disturbed area.

- Disturbed Grassland (Cactus, Yucca, Cheatgrass, Rye)
- Native Grassland (Bluestem, Grama, Wheatgrass, Buffalograss, Fescue, Oatgrass, Brome)
- Shrub Land (Mahogany, Oak, Sage, Serviceberry, Chokecherry)
- Plains Riparian (Cottonwood, Willow, Aspen, Maple, Poplar, Russian Olive, Tamarisk)
- Mountain Riparian (Cottonwood, Willow, Blue Spruce)
- Forest Land (Spruce, Fir, Ponderosa Pine, Lodgepole Pine, Juniper, Pinyon, Aspen)
- Wetlands Aquatic (Bullrush, Sedge, Cattail, Arrowhead)
- Alpine (above timberline)
- Other (describe): \_\_\_\_\_

**WATER RESOURCES**

Is this a sensitive area:  No  Yes

Distance to nearest

downgradient surface water feature: 777 Feet

water well: 2753 Feet

Estimated depth to ground water at Oil and Gas Location 77 Feet

Basis for depth to groundwater and sensitive area determination:

Based on depth to static water of nearest water well (water well permit #123001). Field verification was use to determine absence of sensitive area(s).

Is the location in a riparian area:  No  Yes

Was an Army Corps of Engineers Section 404 permit filed  No  Yes If yes attach permit.

Is the location within a Rule 317B Surface Water Supply Area buffer No zone:

If the location is within a Rule 317B Surface Water Supply Area buffer have all public water supply systems within 15 miles been notified: \_\_\_\_\_

Is the Location within a Floodplain?  No  Yes Floodplain Data Sources Reviewed (check all that apply)

Federal (FEMA)

State

County

Local

Other \_\_\_\_\_

**GROUNDWATER BASELINE SAMPLING AND MONITORING AND WATER WELL SAMPLING**

Water well sampling required per Rule N/A

**DESIGNATED SETBACK LOCATION EXCEPTIONS**

Check all that apply:

- Rule 604.a.(1)A. Exception Zone (within 500' of a Building Unit) and is in an Urban Mitigation Area
- 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)

**RULE 502.b VARIANCE REQUEST**

Rule 502.b. Variance Request from COGCC Rule or Spacing Order Number \_\_\_\_\_

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 Reference area photos will be submitted via sundry, Form 4, within 12 months of Form 2A approval.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete.

Signed: \_\_\_\_\_ Date: 05/24/2016 Email: lmacmillan@crescentpointenergy.com

Print Name: Lauren MacMillan Title: Sr Regulatory Specialist

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: 9/29/2016

**Conditions Of Approval**

All representations, stipulations and conditions of approval stated in this Form 2A for this location shall constitute representations, stipulations and conditions of approval for any and all subsequent operations on the location unless this Form 2A is modified by Sundry Notice, Form 4 or an Amended Form 2A.

<u>COA Type</u>	<u>Description</u>

## Best Management Practices

<b>No</b>	<b>BMP/COA Type</b>	<b>Description</b>
1	Traffic control	Access roads will be constructed to accomodate local emergency vehicles. This road will be maintained for access at all times.
2	General Housekeeping	All surface facilities not subject to safety requirements shall be painted to blend with the natural color of the landscape.
3	Wildlife	All production equipment with a chimney, vent or stack shall be fitted with a device that will prevent birds from entering, such as a excluder cone, metal cage, or equivalent.
4	Storm Water/Erosion Control	Stormwater management plan (SWMP) will be in place to address construction, drilling, and operations associated with oil and gas development throughout the state of Colorado. BMPs will be constructed and used as necessary to prevent stormwater from leaving the construction site. BMPs used will vary according to location, and will remain until the pad is reclaimed.
5	Material Handling and Spill Prevention	Spill Prevention Control and Countermeasure (SPCC) Plan will be in place to address any possible spill associated with oil and gas operations throughout the state of Colorado. -Materials and fluids will be stored in a neat and orderly fashion. -Waste will be collected regularly and disposed of at an onsite facility. -Prompt cleanup is required of spills to minimize waste materials entering the stormwater runoff. -Drip pans will be used during fueling and maintenance to contain spills or leaks. -Cleanup of trash and discarded material will be done at the end of the work day. -Cleanup will consist of monitoring the road, location, and any other work areas. -Material to be cleaned up includes trash, scrap, and contaminated soil.

Total: 5 comment(s)

## Attachment Check List

<b>Att Doc Num</b>	<b>Name</b>
2477934	REFERENCE AREA PICTURES
2477935	NRCS MAP UNIT DESC
2477936	CORRESPONDENCE
401046577	FORM 2A SUBMITTED
401046613	ACCESS ROAD MAP
401046619	HYDROLOGY MAP
401046620	LOCATION DRAWING
401046622	LOCATION PICTURES
401046624	REFERENCE AREA MAP
401046625	WASTE MANAGEMENT PLAN
401046626	SURFACE AGRMT/SURETY
401053298	FACILITY LAYOUT DRAWING

Total Attach: 12 Files

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Final Review Completed.	9/20/2016 8:18:27 AM
Permit	Per operator added mineral owner beneath is Fee. Permitting Review Complete. Took form off hold.	9/19/2016 2:17:37 PM
Permit	Placed ON HOLD: Application for spacing continued to August hearing.	7/29/2016 1:34:11 PM
OGLA	IN PROCESS - Operator confirm the Facilities count of VRTs, VRUs, gas compressors, and air compressors, provided the correct NRCS Spil Map Unit Description attachment, & the Reference Area Pictures attachment.  OGLA review complete and task passed.	7/8/2016 2:01:48 PM
OGLA	ON HOLD - Requested operator confirm the Facilities count of VRTs, VRUs, gas compressors, and air compressors, provide the correct NRCS Spil Map Unit Description attachment, & include the operator's comment about submitting a Form 4 Sundry with Reference Area photos within 12 months of Form 2A approval as an operator BMP. Due by 7/9/16.	6/9/2016 11:32:15 AM
Permit	Passed completeness.	3/2/2016 5:27:27 PM

Total: 6 comment(s)