

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:

401047449

Date Received:

05/17/2016

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:

447913

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: Shull Pad Number: 9-59-31-SENVW
 County: WELD
 Quarter: SENVW 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: 1792 feet FNL from North or South section line
2129 feet FWL from East or West section line

Latitude: 40.709044 Longitude: -104.022649

PDOP Reading: 3.4 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:

LOCATION ID # **FORM 2A DOC #**

Well Site is served by Production Facilities

401046577

FACILITIES

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

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

OTHER FACILITIES*

Other Facility Type

Number

Other Facility Type	Number

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:

Total of sixteen (16), 4" steel pipelines to accomodate the eight (8) proposed wells: one (1) buried 4" steel pipeline for oil emulsion and one (1) buried 4" steel pipeline for casing gas for each proposed well. The 16 buried lines will lead from the proposed Shull Pad 9-59-31-SEW location to the proposed central production facility (Anderson Facility 9-59-31-SESW).

CONSTRUCTION

Date planned to commence construction: 06/01/2017 Size of disturbed area during construction in acres: 9.31
Estimated date that interim reclamation will begin: 01/01/2018 Size of location after interim reclamation in acres: 3.44
Estimated post-construction ground elevation: 4878

DRILLING PROGRAM

Will a closed loop system be used for drilling fluids: Yes

Is H₂S anticipated? No

Will salt sections be encountered during drilling: No

Will salt based mud (>15,000 ppm Cl) be used? No

Will oil based drilling fluids be used? No

DRILLING WASTE MANAGEMENT PROGRAM

Drilling Fluids Disposal: OFFSITE Drilling Fluids Disposal Method: Commercial Disposal

Cutting Disposal: OFFSITE Cuttings Disposal Method: Commercial Disposal

Other Disposal Description:

see attached waste management plan

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:	<u>5280</u> Feet	_____ Feet
Building Unit:	<u>5280</u> Feet	_____ Feet
High Occupancy Building Unit:	<u>5280</u> Feet	_____ Feet
Designated Outside Activity Area:	<u>5280</u> Feet	_____ Feet
Public Road:	<u>1716</u> Feet	_____ Feet
Above Ground Utility:	<u>5280</u> Feet	_____ Feet
Railroad:	<u>5280</u> Feet	_____ Feet
Property Line:	<u>1188</u> Feet	_____ 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 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 (onl 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: 32- Kim-Mitchell complex, 6 to 9 percent slopes

NRCS Map Unit Name: 29- Haverson loam, 0 to 3 percent slopes

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: 70 Feet

water well: 1785 Feet

Estimated depth to ground water at Oil and Gas Location 40 Feet

Basis for depth to groundwater and sensitive area determination:

Depth to groundwater was based on static water level of nearest water well (water well permit #5911). Absence of sensitive areas was field verified.

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 609

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 Crescent Point contracted Grasslands Consulting to perform a wetland delineation and Waters of the United States (WOTUS) assessment for the 34-well Anderson/Shull development project. Field assessment/surveys were conducted in April and again in May 2016 during the growing season. No wetlands were documented in the vicinity of the proposed development however Wild Horse Creek was determined to be a jurisdictional WOTUS and thus is regulated by the US Army Corps of Engineers (USACE). The proposed co-located access road/pipeline ROW between the Shull Pad 9-59-31 -SENW and Shull Pad 9-59-31-NESW crosses Wild Horse Creek and will require a USACE Nationwide Permit (NWP) 12 for utility line activities and NWP 14 for linear transportation projects. To streamline the permitting and federal consultation process, Crescent Point intends to submit the USACE NWP 12 & 14 concurrent to the BLM APDs. Crescent Point will provide a copy of the approved USACE permits to the COGCC via Form 4 Sundry Notice prior to commencing dirt work.

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

Signed: _____ Date: 05/17/2016 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:  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>
	Operator must implement site-specific best management practices in accordance with good engineering practices, including, but not limited to, construction of a berm or diversion dike, site grading, or other comparable measures, sufficient to protect Wild Horse Creek located 70 feet south of the oil and gas location from a release of drilling, completion, produced fluids, and chemical products.

Best Management Practices

<u>No</u>	<u>BMP/COA Type</u>	<u>Description</u>
1	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.
2	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.
3	Construction	Crescent Point contracted Grasslands Consulting to perform a wetland delineation and Waters of the United States (WOTUS) assessment for the 34-well Anderson/Shull development project. Field assessment/surveys were conducted in April and again in May 2016 during the growing season. No wetlands were documented in the vicinity of the proposed development however Wild Horse Creek was determined to be a jurisdictional WOTUS and thus is regulated by the US Army Corps of Engineers (USACE). The proposed co-located access road/pipeline ROW between the Shull Pad 9-59-31-SENE and Shull Pad 9-59-31-NESW crosses Wild Horse Creek and will require a USACE Nationwide Permit (NWP) 12 for utility line activities and NWP 14 for linear transportation projects. To streamline the permitting and federal consultation process, Crescent Point intends to submit the USACE NWP 12 & 14 concurrent to the BLM APDs. Crescent Point will provide a copy of the approved USACE permits to the COGCC via Form 4 Sundry Notice prior to commencing dirt work.

Total: 3 comment(s)

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
2477932	REFERENCE AREA PICTURES
2477933	CORRESPONDENCE
401047449	FORM 2A SUBMITTED
401049001	SURFACE AGRMT/SURETY
401049002	WASTE MANAGEMENT PLAN
401049003	ACCESS ROAD MAP
401049005	HYDROLOGY MAP
401049006	LOCATION PICTURES
401049007	LOCATION DRAWING
401049010	MULTI-WELL PLAN
401049011	REFERENCE AREA MAP
401049012	NRCS MAP UNIT DESC

Total Attach: 12 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Final Review Completed.	9/29/2016 3:12:12 PM
Permit	Permitting Review Complete.	9/29/2016 1:14:52 PM
Permit	Placed ON HOLD: Application for spacing continued to August hearing.	7/29/2016 1:06:02 PM
OGLA	IN PROCESS - Operator confirmed they will NOT use salt based muds, provided Reference Area Pictures attachment, changed Sensitive Area to YES, and agreed to a COA about protecting Wild Horse Creek due to its proximity to the location. OGLA review complete and task passed.	7/8/2016 8:31:22 AM
OGLA	ON HOLD - Requested operator confirm they will use salt based muds, add the operator comment about submitting a Form 4 Sundry for Reference Area photos as an operator BMP also, change Sensitive Area to YES, and add a COA about protecting Wild Horse Creek due to its proximity to the location. Due by 7/7/16.	6/7/2016 10:08:05 AM
LGD	Oil and Gas Exploration and Production activities are currently considered a Use by Right in the Agricultural Zoned District and no land use permitting is required by the County. A building permit is required for the production facilities (tank battery, separators, pump jacks, etc.) from the Department of Planning Services. A new or expanded access from a county road or the use of a county right-of-way requires a permit from the Department of Public Works. Troy Swain, Weld Oil and Gas Liaison and LGD (970) 353-6100, ext. 3579.	6/6/2016 10:35:55 AM
Permit	Passed completeness.	5/27/2016 9:58:47 AM

Total: 7 comment(s)