

**APPLICATION FOR PERMIT TO:**

**Drill**       Deepen       Re-enter       Recomplete and Operate

TYPE OF WELL    OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> COALBED <input type="checkbox"/> OTHER _____ ZONE TYPE        SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONES <input type="checkbox"/> COMMINGLE ZONES <input type="checkbox"/>	Refiling <input type="checkbox"/> Sidetrack <input type="checkbox"/>
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Date Received:  
04/17/2017

Well Name: Harvey      Well Number: 7-63-23-5760BE

Name of Operator: CRESCENT POINT ENERGY U.S. CORP      COGCC Operator Number: 10520

Address: 555 17TH STREET SUITE 1800

City: DENVER      State: CO      Zip: 80202

Contact Name: Lori Browne      Phone: (720)880-3631      Fax: (    )

Email: lbrowne@crescentpointenergy.com

**RECLAMATION FINANCIAL ASSURANCE**  
Plugging and Abandonment Bond Surety ID: 20150074

**WELL LOCATION INFORMATION**

QtrQtr: SWSW      Sec: 24      Twp: 7N      Rng: 63W      Meridian: 6

Latitude: 40.553452      Longitude: -104.392690

Footage at Surface: <u>440</u> Feet	FNL/FSL	FEL/FWL
<u>FSL</u> <u>319</u> Feet	<u>FSL</u> <u>319</u> Feet	<u>FWL</u> <u>319</u> Feet

Field Name: WATTENBERG      Field Number: 90750

Ground Elevation: 4788      County: WELD

GPS Data:  
Date of Measurement: 10/07/2016    PDOP Reading: 1.3    Instrument Operator's Name: Ross Todd

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>475</u> <u>FSL</u> <u>475</u> <u>FEL</u>	<u>475</u> <u>FEL</u>	<u>475</u> <u>FSL</u> <u>2165</u> <u>FEL</u>	<u>2165</u> <u>FEL</u>
Sec: <u>23</u> Twp: <u>7N</u> Rng: <u>63W</u>	Sec: <u>22</u> Twp: <u>7N</u> Rng: <u>63W</u>	Sec: <u>22</u> Twp: <u>7N</u> Rng: <u>63W</u>	Sec: <u>22</u> Twp: <u>7N</u> Rng: <u>63W</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: No

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

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.)

SWSW, SESW, SWSE, SESE of Section 23, Township 7 North, Range 63 West (S/2/S/2)

Total Acres in Described Lease: 160 Described Mineral Lease is:  Fee  State  Federal  Indian

Federal or State Lease # \_\_\_\_\_

Distance from Completed Portion of Wellbore to Nearest Lease Line of described lease: 0 Feet

**CULTURAL DISTANCE INFORMATION**

Distance to nearest:

Building: 3990 Feet

Building Unit: 4113 Feet

High Occupancy Building Unit: 5280 Feet

Designated Outside Activity Area: 5280 Feet

Public Road: 308 Feet

Above Ground Utility: 292 Feet

Railroad: 5280 Feet

Property Line: 319 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: 504 Feet

Distance from Completed Portion of Wellbore to Nearest Unit Boundary 475 Feet (Enter 5280 for distance greater than 1 mile.)

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

**SPACING & FORMATIONS COMMENTS**

Spacing Unit: Section 23: S/2S/2, Section 22: S/2SE/4, T7N, R63W.

**OBJECTIVE FORMATIONS**

Objective Formation(s)	Formation Code	Spacing Order Number(s)	Unit Acreage Assigned to Well	Unit Configuration (N/2, SE/4, etc.)
NIOBRARA	NBRR		240	GWA

## DRILLING PROGRAM

Proposed Total Measured Depth: 13969 Feet

Distance from the proposed wellbore to nearest existing or proposed wellbore belonging to another operator, including plugged wells:

Enter distance if less than or equal to 1,500 feet: 504 Feet  No well belonging to another operator within 1,500 feet

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? Yes

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 318A

## 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? No

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	24	16	65	0	40	100	40	0
SURF	12+1/4	9+5/8	36	0	1000	480	1000	0
1ST	8+3/4	7	26	0	6970	725	6970	0
1ST LINER	6+1/8	4+1/2	11.6	6820	13968	530	13968	6820

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

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

Location ID: \_\_\_\_\_

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: Lori Browne

Title: Sr. Regulatory Specialist Date: 4/17/2017 Email: lbrowne@crescentpointenergy.

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: 9/29/2017

Expiration Date: 09/28/2019

**API NUMBER**  
05 123 45581 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) Submit Form 42 electronically to COGCC 48 hours prior to MIRU for the first well activity with a rig on the pad and provide 48 hour spud notice for each subsequent well drilled on the pad. 2) Comply with Rule 317.j and provide cement coverage from TD to a minimum of 200' above the Niobrara. Verify coverage with cement bond log. 3) Oil-based drilling fluid is to be used only after all aquifers are covered.
	Bradenhead tests shall be performed and reported according to the following schedule and Form 17 submitted within 10 days of each test: 1) Within 60 days of rig release and prior to stimulation and 2) If a delayed completion, 6-7 months after rig release and prior to stimulation. 3) Within 30 days after first production, as reported on Form 5A.

## Best Management Practices

No	BMP/COA Type	Description
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 in accordance with CFR 112.
3	Drilling/Completion Operations	<p>Anti-Collision: prior to drilling operations, Crescent Point will perform an anti-collision scan of existing offset wells that have the potential of being within close proximity of the proposed well. This anti-collision scan will include definitive MWD or gyro surveys of the offset wells with included error of uncertainty per survey instrument, and compared against the proposed well path with its respective error of uncertainty. If current surveys do not exist for the offset wells, operators may have gyro surveys conducted to verify bottom hole location. The proposed well may only be drilled if the anti-collision review results indicate that the risk of collision is sufficiently low as defined by the anti-collision plan, with separation factors greater than 1.5, or if the risk of collision has been mitigated through other means including shutting in wells, plugging wells, increased drilling fluid in the event of lost returns or as is appropriate for the specific situation. In the event of an increased risk of collision, that risk will be mitigated to prevent harm to people, the environment or property. For the proposed well, upon conclusion of drilling operations, an as-constructed directional survey will be submitted to the COGCC with the Form 5.</p> <p>Identification of plugged and abandoned wells will be identified pursuant to 319.a(5).</p>
4	Drilling/Completion Operations	Bradenhead Monitoring: Crescent Point acknowledges and will comply with COGCC Policy for Bradenhead Monitoring during Hydraulic Fracturing Treatments in the Greater Wattenberg Area dated May 29, 2012.
5	Drilling/Completion Operations	Per Rule 317.p, the first well drilled on the pad will be logged with open-hole resistivity log and gamma ray log from the kick-off point into the surface casing. All wells on the pad will have a cement bond log with gamma-ray run on production casing (or on intermediate casing if production liner is run) into the surface casing. The horizontal portion of each well will be logged with a measured-while-drilling gamma-ray log. 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 and number) the well in which open-hole logs were run.
6	Interim Reclamation	Crescent Point shall be responsible for segregating the topsoil, backfilling, and repacking, reseeding, and re-contouring the surface of any disturbed area not needed for safe operations and will control for noxious weeds as best as possible.
7	Final Reclamation	Within 90 days subsequent of plugging and abandoning the location, superfluous debris and equipment shall be removed from the site. Crescent Point shall restore the surface of the Land affected by such terminated operations as near as possible to the previous state that existed prior to operations.

Total: 7 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

Att Doc Num	Name
1696787	PROPOSED SPACING UNIT
401258495	FORM 2 SUBMITTED

401258948	OffsetWellEvaluations Data
401258955	WELL LOCATION PLAT
401259068	DIRECTIONAL DATA
401259073	EXCEPTION LOC REQUEST
401259075	EXCEPTION LOC WAIVERS
401259087	SURFACE AGRMT/SURETY
401265686	DEVIATED DRILLING PLAN
401417082	OFFSET WELL EVALUATION

Total Attach: 10 Files

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Final Review Completed.	09/22/2017
Engineer	2D measurements taken at surface location >150'. Evaluated Offset wells.	07/24/2017
Permit	Open Hole Logging BMP submitted by operator. Attached corrected 30 Day Certification Letter and Proposed Spacing Unit map. Added spacing unit description, corrected acreage and change unit configuration to GWA. Changed distance to nearest mineral lease to zero. Changed distance to nearest unit boundary. Permitting Review Complete.	07/05/2017
Permit	Attached updated PSU. added spacing description and changed unit configuration to GWA.	06/20/2017
Permit	Passed Completeness  changed proposed TD per well plan data	05/02/2017
Permit	Return to Draft: -Rule 317p. regarding open hole logging is a required BMP -Need Deviated well plan	04/24/2017

Total: 6 comment(s)