

FORM
2A

Rev
02/20

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:

402468883

(SUBMITTED)

Date Received:

09/24/2020

Oil and Gas Location Assessment

☐ New Location ☐ Refile ☒ Amend Existing Location Location#: 454938

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 <https://cogcc.state.co.us/> for all accompanying information pertinent this Oil and Gas Location Assessment.

Location ID:

454938

Expiration Date:

☐ 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: 10071
Name: HIGHPOINT OPERATING CORPORATION
Address: 555 17TH ST STE 3700
City: DENVER State: CO Zip: 80202

Contact Information

Name: Erin Ekblad
Phone: (303) 312.8745
Fax: ()
email: eekblad@hpres.com

FINANCIAL ASSURANCE

- ☒ Plugging and Abandonment Bond Surety ID (Rule 706): 20040060 ☐ Gas Facility Surety ID (Rule 711): _____
- ☐ Waste Management Surety ID (Rule 704): _____

LOCATION IDENTIFICATION

Name: Critter Creek Number: 14 SW
County: WELD
Quarter: SWSW Section: 14 Township: 11N Range: 63W Meridian: 6 Ground Elevation: 5221

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: 658 feet FSL from North or South section line
669 feet FWL from East or West section line

Latitude: 40.917031 Longitude: -104.407087

GPS Quality Value: 1.5 Type of GPS Quality Value: PDOP Date of Measurement: 06/17/2020

Instrument Operator's Name: Chad Meiers, O.R.

LOCAL GOVERNMENT INFORMATION

County: WELD Municipality: N/A

Per § 34-60-106 (1)(f)(I)(A), the following questions pertain to the "local government with jurisdiction to approve the siting of the proposed oil and gas location."

The local government with jurisdiction is: County

Does the local government with jurisdiction regulate the siting of Oil and Gas Locations, with respect to this location? If the local government does regulate the siting, but has waived its right to precede the COGCC in siting determination, indicate by selecting "YES" here and selecting "Waived" for the disposition below. ☒ Yes ☐ No

If yes, in checking this box, I hereby certify that an application has been filed with the local government with jurisdiction to approve the siting of the proposed oil and gas location. ☒

The local government siting permit type is: 1041WOGLA20-0037

The local government siting permit was filed on: 07/31/2020

The disposition of the application filed with the local government is: In Process

Additional explanation of local process:

1041WOGLA20-0037 was submitted 7/31/2020 and is in process. This application is apart of a CDP with Weld County. Weld informed HighPoint that a new siting permit number will be issued at approval since this is apart of CDP with Weld County.

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: Well Site is served by Production Facilities **LOCATION ID #** 444290 **FORM 2A DOC #** _____

FACILITIES

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

Wells	<u>15</u>	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	_____	Separators*	<u>14</u>	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*

<u>Other Facility Type</u>	<u>Number</u>
Pump Units	<u>14</u>

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:

(28) 2"-4" 3 phase lines from wellhead to separators
(1) 6"-8" gas gathering line
(1) 4"-6" gas INJ line
(2) 4"-6" water lines
(1) 4"-6" oil line
(2) 1"-2" supply/fuel gas line

CONSTRUCTION

Date planned to commence construction: 01/03/2021 Size of disturbed area during construction in acres: 13.37
Estimated date that interim reclamation will begin: 01/03/2022 Size of location after interim reclamation in acres: 7.51
Estimated post-construction ground elevation: 5220

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: Land application

Cutting Disposal: OFFSITE Cuttings Disposal Method: Beneficial reuse

Other Disposal Description:

See attached waste management plan.

Beneficial reuse or land application plan submitted? Yes

Reuse Facility ID: 462030 or Document Number:

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

SURFACE & MINERALS & RIGHT TO CONSTRUCT

Name: Ken and Norma Ayars

Phone:

Address: 63546 WCR 67

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

If this Form 2A is associated with Drilling and Spacing Unit applications, list docket number(s):

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:	5280 Feet	5280 Feet
Building Unit:	5280 Feet	5280 Feet
High Occupancy Building Unit:	5280 Feet	5280 Feet
Designated Outside Activity Area:	5280 Feet	5280 Feet
Public Road:	657 Feet	504 Feet
Above Ground Utility:	354 Feet	193 Feet
Railroad:	5280 Feet	5280 Feet
Property Line:	382 Feet	221 Feet
School Facility::	5280 Feet	5280 Feet
School Property Line:	5280 Feet	5280 Feet
Child Care Center:	5280 Feet	5280 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, Designated Outside Activity Area, School Facility, and Child Care Center – as defined in 100 Series Rules.
- For measurement purposes only, Production Facilities should only include those items with an asterisk(*) on the Facilities Tab.

SCHOOL SETBACK INFORMATION

Was Notice required under Rule 305.a.(4)? ☐ Yes ☒ No

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 be 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: 49—Paoli fine sandy loam, 0 to 6 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: 07/16/2020

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: 204 Feet

water well: 4114 Feet

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

Basis for depth to groundwater and sensitive area determination:

The nearest downgradient surface water feature is a floodplain, which lies in the northeastern corner of the existing pad. Please see added BMPs along with our Floodplain Plan attachment. There is also a river 204' NE of the pad. The nearest constructed water well is 4114' SW of the pad under permit #271318 with a static water level of 40'.

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

WILDLIFE

☐ This location is included in a Wildlife Mitigation Plan

☐ This location was subject to a pre-consultation meeting with CPW held on _____

Operator Proposed Wildlife BMPs

No BMP

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	<p>The reference well for this location is Critter Creek 23-0461BE.</p> <p>This wellsite is served by production facilities at 444290 Location ID.</p> <p>We are amending Location ID 454938 Critter Creek 14 SW Pad. We are amending this pad to add 10 wells to make this a 15 well pad. One of the wells on this pad is not producing and had issues, so we are not adding any separator equipment to this location for this one well.</p> <p>There is an offset well 500 feet away noted in location drawing as well.</p> <p>This pad is within a 1000 feet of a buffer of a floodplain and we added additional BMP's to protect for the floodplain. We also added our floodplain pad for this proposed pad we are amending as an attachment to the 2A. This is not a required document, but we wanted to include anyways.</p> <p>1041WOGLA20-0037 was submitted 7/31/2020 and is in process. This application is apart of a CDP with Weld County. Weld informed HighPoint that a new siting permit number will be issued at approval since this is apart of CDP with Weld County.</p> <p>HighPoint changed this 2A to be our right to construct is attached signed SUA from the original 2A.</p>
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I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete.

Signed: _____ Date: 09/24/2020 Email: eekblad@hpres.com

Print Name: Erin Ekblad Title: Regulatory Supervisor

Based on the information provided herein, this Oil and Gas Location Assessment complies with COGCC Rules, applicable orders, and SB 19-181 and is hereby approved.

COGCC Approved: _____ Director of COGCC Date: _____

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.

COA Type	Description

Best Management Practices

No	BMP/COA Type	Description
1	Planning	A barbed wire fence will be installed around the perimeter of location. In addition, a cattle guard will be set at the entrance of location. The fence will be moved during interim reclamation and will remain in place around the final disturbance area.
2	Traffic control	Traffic will follow an approved route per a Road Maintenance Agreement with Weld County. Operator will work with Weld County to create a designated haul route that will be utilized during times of heavy road use. Operator will install travel route signs at all exit points of the Location and nearby road intersections that clearly depict the County approved travel Route.
3	General Housekeeping	Housekeeping will consist of neat and orderly storage of materials and fluids. All surface trash, debris, scrap or discarded material connected with the operations of the property shall be removed from the premises or disposed of in a legal manner.

4	Storm Water/Erosion Control	HighPoint will implement site-specific stormwater control measures 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 prevent the runoff of sediment from the pad. Control measures consisting of a diversion ditch along the northern, western, and eastern perimeters will be constructed around the location. Each diversion ditch will flow to a rip rap apron. A minimum one foot tall compacted berm will be constructed around the portions of the south, east and west sides of the pad surface not bounded by a cut slope at least one foot tall. Vehicle tracking controls will be utilized at the entrance/s. Cut and fill slopes will be stabilized via tracking or use of tackifier and/or temporary seeding. Topsoil stockpile will be stabilized by application of seed and straw or hydro-mulch. Diversion ditches will be placed around the topsoil stockpile on the north and spoils stockpile on the east on the east side of location. The diversion ditch will flow to a sediment trap. A detention pond with emergency spillway will be constructed on the southeast side of the pad surface. A stabilized staging area will be utilized on the west side of location. During active construction stormwater inspections will be conducted either weekly (May-Aug) or every two weeks and after significant precipitation events (Sept-April). After active construction and interim reclamation has been completed inspections will be conducted monthly until vegetation has been re-established on the interim reclamation area. The location will be treated for weeds as needed and regraded when necessary to maintain proper drainage.
5	Material Handling and Spill Prevention	A HighPoint Operating Corporation lease operator or representative will visit the location routinely, typically daily, and visually inspect equipment for leaks. Additionally, monthly documented leak detection and repair inspections will be conducted using an infrared (IR) camera capable of identifying leaks of hydrocarbon vapor. Any leaks discovered during these inspections will be repaired in a timely fashion, typically the same day subject to the availability of parts and other operational considerations.
6	Construction	Lighting on poles or buildings will be mounted downwards to illuminate key areas within the facility while minimizing the amount of lighting projected outside the facility.
7	Emissions mitigation	Green Completions -Separators and associated flow lines, sand traps and emission control systems shall be installed on-site to accommodate green completions techniques. When salable quality gas is achieved at each well, the gas shall be immediately directed to a sales line or shut in and conserved. If a sales line is unavailable or other conditions prevent placing the gas into a sales line, the operator shall not produce the wells without an approved variance per Rule 805.b. (3)C
8	Drilling/Completion Operations	Drilling and Completion-All loadlines shall be bullplugged or capped.
9	Drilling/Completion Operations	Operator will be utilizing a closed loop system.
10	Drilling/Completion Operations	HighPoint plans to put secondary containment around all non-fresh water fluid storage tanks on location.
11	Drilling/Completion Operations	Pit level Indicators - Active pit systems on drilling rigs will utilize a PVT (Pit Volume Totalizer) system in conjunction with an EDR (Electronic Depth Recorder) system allowing us to continuously track pit volumes, digitally record pit volumes, and set alarms to alert personnel on location when a pit gains / losses fluid. These items are standard on a 5K system which is what we are permitting for.
12	Drilling/Completion Operations	HighPoint plans to have lighting directed downward during drilling and completion operations.
13	Drilling/Completion Operations	During drilling activities, a portable or temporary rig mat shall be placed beneath the drilling rig to protect water resources.
14	Drilling/Completion Operations	For the Floodplain nearby: To mitigate flood risk, no oil or produced water storage tanks will be placed at this location. HighPoint will anchor 3-phase separators on location with steel cables tied to helical anchors placed a minimum of 3' into the pad surface. Any ancillary surface equipment will be anchored in a similar manner or using steel t-posts in the case of smaller pieces of equipment. Wells will be equipped with isolation valves that can be actuated remotely via HighPoint's SCADA system. The valves will be fail closed such that in the case of a loss of power they will fail in a closed position isolating the wellheads from downstream production equipment.

Total: 14 comment(s)

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
402481909	HYDROLOGY MAP
402481910	NRCS MAP UNIT DESC
402481912	LOCATION DRAWING
402481913	LOCATION PICTURES
402481914	MULTI-WELL PLAN
402481915	REFERENCE AREA MAP
402481916	REFERENCE AREA PICTURES
402481917	ACCESS ROAD MAP
402495609	OTHER
402495614	WASTE MANAGEMENT PLAN
402497430	NRCS MAP UNIT DESC
402497431	SURFACE AGRMT/SURETY

Total Attach: 12 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
OGLA	Returned to Draft - Surface & Minerals & Right to Construct tab: Incomplete address	10/06/2020

Total: 1 comment(s)

Public Comments

No public comments were received on this application during the comment period.

