

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:

401994208

Date Received:

04/11/2019

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

Location ID:

478161

Expiration Date:

09/28/2023

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: Randall Creek Number: 29 SW
 County: WELD
 Quarter: SESW Section: 29 Township: 12N Range: 62W Meridian: 6 Ground Elevation: 5263
 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: 382 feet FSL from North or South section line
1437 feet FWL from East or West section line
 Latitude: 40.974406 Longitude: -104.347819
 GPS Quality Value: 1.3 Type of GPS Quality Value: PDOP Date of Measurement: 08/19/2018
 Instrument Operator's Name: Greg Weimer

LOCAL GOVERNMENT INFORMATION

County: WELD Municipality: N/A

CONSTRUCTION

Date planned to commence construction: 08/01/2021 Size of disturbed area during construction in acres: 13.10
Estimated date that interim reclamation will begin: 07/01/2022 Size of location after interim reclamation in acres: 6.20
Estimated post-construction ground elevation: 5362

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:

Beneficial reuse or land application plan submitted? Yes

Reuse Facility ID: 454282 or Document Number: _____

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

SURFACE & MINERALS & RIGHT TO CONSTRUCT

Name: Loyd Farms Phone: _____

Address: 66732 WCR 87 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: Yes

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:	364 Feet	564 Feet
Above Ground Utility:	339 Feet	540 Feet
Railroad:	5280 Feet	5280 Feet
Property Line:	250 Feet	450 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 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: 4—Ascalon fine sandy loam, 0 to 6 percent slopes

NRCS Map Unit Name: 1 - Altvan fine sandy loam, 0 to 6 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: 08/17/2018

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: 1388 Feet

water well: 3205 Feet

Estimated depth to ground water at Oil and Gas Location 52 Feet

Basis for depth to groundwater and sensitive area determination:

Depth to groundwater was determined from nearest water well, Permit 104497--A. The area was marked as a sensitive area as it is located in the Upper Crow Creek Designated Basin.

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 _____

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 The proposed Randall Creek 29 SW pad will be constructed to accommodate a total of 16 new wells and production equipment.

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

Signed: _____ Date: 04/11/2019 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: 9/29/2020

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**

Planning	Operator will submit updated Reference Area Pictures taken within the growing season via a Form 4 Sundry within 12 months of the approval of this Form 2A.
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Best Management Practices**No BMP/COA Type****Description**

1 Storm Water/Erosion Control	<p>Operator 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 ditch and berm will be implemented along the entire perimeter. The ditch will flow to a sediment trap on the northwest corner of the location. The sediment trap will have inlet and outlet protection. A two foot tall compacted berm will be constructed around the perimeter of the pad surface.</p> <p>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.</p> <p>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.</p>
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2	Material Handling and Spill Prevention	<p>A lease operator or Operator representative will visit the location routinely, typically daily, and visually inspect all tanks and process 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.</p> <p>Tanks will be designed, constructed and maintained in accordance with applicable industry standards such as API 12F and NFPA Code 30. All crude oil and produced water storage tanks will be placed inside lined secondary containment constructed of a galvanized steel wall lined with 30 mil HDPE liner material.</p> <p>Tanks will be equipped with liquid level sensors that are tied into a Supervisory Control and Data Acquisition (SCADA) system. HighPoint operators can remotely monitor tank liquid levels via the SCADA system and remotely shut in the facility if high liquid levels are detected. The liquid level sensors also have a high-high alarm setting that will autonomously shut in the facility if high liquid levels are detected and the facility is not already shut in by Operator.</p> <p>Chemical tanks, lube oil tanks or other miscellaneous tanks will be placed in prefabricated containment structures constructed of galvanized steel or polyethylene. All containment areas will be inspected following heavy rain events. Excessive precipitation accumulation within secondary containment that materially impacts storage capacity of the containment structure will be removed as and discharged or disposed of properly. All structural berms, dikes, and containment will be inspected periodically to ensure they are functioning as designed. Drip pans or liners shall be used during equipment refueling and maintenance.</p>
3	Material Handling and Spill Prevention	<p>During drilling and completion activities, a portable or temporary liner shall be emplaced beneath the rig or equipment to protect water resources.</p>
4	Material Handling and Spill Prevention	<p>Pigging stations shall have catchments for containing any spilled fluids. Accumulated E&P Waste shall be removed immediately upon completion of pigging operations.</p>
5	Material Handling and Spill Prevention	<p>The location is in a sensitive area because it falls within the boundary of the Upper Crow Creek Designated Basin, therefore, the operator shall line the secondary containment areas for the frac tanks and temporary separators with an impervious material to prevent the downward migration of produced liquids.</p>
6	Material Handling and Spill Prevention	<p>Flowback and stimulation fluids from the wells being completed will be sent to tanks and/or filters to allow sand and sediment to settle out before the fluids are hauled to a state-approved disposal facility.</p>
7	Emissions mitigation	<p>Vapor control equipment will be installed to capture and combust all vapors emanating from storage tanks during normal operations. The facility will be equipped with a LACT unit and remote tank liquid level sensors such that tank hatches will not need to be opened during normal operations. The facility will be equipped with vapor capture systems to capture and control tank truck emissions during hydrocarbon loading activities.</p>
8	Emissions mitigation	<p>Green Completions -Test separators and associated flow lines, sand traps and emission control systems shall be installed on-site to accommodate green completions techniques. When commercial quantities of salable quality gas are 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.</p>

Total: 8 comment(s)

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
2109319	REFERENCE AREA MAP
2109320	REFERENCE AREA PICTURES
2369204	OBJECTIVE CRITERIA REVIEW MEMO
2369256	WASTE MANAGEMENT PLAN
2369274	NRCS MAP UNIT DESC
401994208	FORM 2A SUBMITTED
401994356	NRCS MAP UNIT DESC
401994362	LOCATION DRAWING
401994363	LOCATION PICTURES
401994365	MULTI-WELL PLAN
401994366	MINERAL LEASE MAP
401994367	HYDROLOGY MAP
402122833	SURFACE AGRMT/SURETY
402130607	ACCESS ROAD MAP

Total Attach: 14 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Final Review	Final Approval ready - no additional corrections needed. The permit for nearby Location #444072 was formally abandoned via Sundry in April 2020 and the Location will not be constructed.	09/29/2020
Final Review	Final Approval pending - referred to OGLA staff for follow up.	09/28/2020
OGLA	The Objective Criteria Review Memo (Doc# 2369204) is attached to this Form 2A. Following additional analysis arising out of the Objective Criteria, the Director determined that this application meets the standard for the protection of public health, safety, welfare, the environment, and wildlife resources set by SB 19-181.	09/14/2020
OGLA	08/28/2020 - conducted and completed final review; passed Final Review task.	08/28/2020
OGLA	Location passed the Director's Review on 8/3/2020 after discussion on why the Operator did not consolidate Locations. The Randall Creek 29 SWSW was previously approved and this Form 2A was submitted to amend that Location; however, it had not been built. Randall Creek 29 SWSW location permit has been formally abandoned by the operator via Sundry #402354991.	08/10/2020
OGLA	Operator provided concurrence with adding the NRCS Map Unit Desc 1 - Altvan fine sandy loam, 0 to 6 percent slopes, and provided the required attachment.	07/31/2020
OGLA	Requested Operator provide an attachment for the NRCS Map Unit Desc 1 - Altvan sandy loam, 0 to 6 percent slopes, that underlies the southeast corner of the proposed pad location and concur with adding it to the Soils & Plant Community tab.	07/31/2020
OGLA	Operator inquired about the status of the Form 2A approval. Asked if the Operator had a construction crew and drill rig scheduled for this Location. The Operator replied that at the moment they do not, but that they want to start submitting the Form 2s for the Location and that the COGCC is tied to the 1041 WOGLA applications. This Form 2A came into process before Weld County invoked their 1041 authority. COGCC is not bound by the 1041 statute to Approve or Deny this application within 60 days.	07/31/2020
OGLA	Facility tab indicates (8) Oil tanks and (4) Water tanks. Operator confirmed that Objective Criteria 8 is met since the aggregate production storage is more than 5,200 bbls. Asked Operator if there was a reason that the Randall Creek 29 SW was not combined with the Randall Creek 29 (SE) Location. Operator response was that there are two surface owners and Operator's preferred design is to have separate pads with similar well counts rather than combining into one pad.	07/14/2020
OGLA	COGCC Staff conducted its technical review of this From 2A Oil and Gas Location Assessment within the context of SB 19-181 and the required Objective Criteria. This From 2A met Objective Criteria #5.c and 8.	07/13/2020

OGLA	Operator provided revised BMPs for storm water/erosion control and material handling/spill prevention for replacing BMPs 1, 2, 3, 4, 6, and 9. Also added a BMP for emissions mitigation.	06/25/2020
OGLA	Operator provided revised dates for construction and interim reclamation.	06/24/2020
Permit	Multiwell Plan is consistent with approved spacing - 421-113 and 421-123. Removed related forms - operator deleted some of the forms. The following corrections were made with operator concurrence: updated contact information checked 2 additional checkboxes on the surface and minerals tab	06/24/2020
OGLA	Updated Location Identification for Local Government Information with Operator provided information.	06/08/2020
OGLA	Operator provided a revised Waste Management Plan attachment.	11/21/2019
Permit	Returned to draft - Cannot open Access Road Map. Re-attached by operator. Passed Completeness.	08/01/2019
Permit	Returned to draft per operator request.	07/29/2019
Permit	Returned to draft per operator request.	07/25/2019
Permit	Returned to draft: Operator to complete Local Government Information. This form has not been reviewed for completeness.	05/30/2019

Total: 19 comment(s)