

FORM  
2A

Rev  
05/22

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:

403257320

(SUBMITTED)

Date Received:

02/03/2023

Oil and Gas Location Assessment

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:

OGDP ID:

Expiration Date:

☒ New Location ☐ Refile ☐ Amend Existing Location # \_\_\_\_\_

If this Location assessment is a component of an Oil and Gas Development Plan (OGDP) application, enter the OGDP docket number(s).

Docket Number	OGDP ID	OGDP Name
230200042		

If this Location assessment is part of an approved Oil and Gas Development Plan, enter the OGDP ID number(s).

<No existing OGDP number provided>

CONSULTATION

- ☒ This location is included in a Comprehensive Area Plan (CAP). CAP ID # 210200012
- ☒ This Location or its associated new access road, utility, or Pipeline corridor meets Rule 309.e.(2).A, B, or C.
- ☐ This Location is within 2,640 feet of a GUDI or Type III Well per Rule 411.b.(4).
- ☐ This Location includes a Rule 309.e.(2).E variance request.
- ☐ This location includes a Rule 309.f.(1).A.ii. variance request.

Operator

Operator Number: 69175

Name: PDC ENERGY INC

Address: 1099 18TH STREET SUITE 1500

City: DENVER State: CO Zip: 80202

Contact Information

Name: Venessa Chase

Phone: (303) 860-5800

Fax: ( )

email: venessa.chase@pdce.com

FINANCIAL ASSURANCE FOR THIS LOCATION (check all that apply)

- ☒ Plugging, Abandonment, and Reclamation 20160047
- ☐ Centralized E&P Waste Management Facility \_\_\_\_\_
- ☐ Gas Gathering, Gas Processing, and Underground Gas Storage Facilities \_\_\_\_\_
- ☐ Surface Owner Protection Bond. \_\_\_\_\_

Federal Financial Assurance

- ☐ In checking this box, the Operator certifies that it has provided or will provide at least this amount of Financial Assurance to the federal government for one or more Wells on this Location.

Amount of Federal Financial Assurance \$ \_\_\_\_\_

LOCATION IDENTIFICATION

Name: Denali State

Number: 5N67W13 1-23

Provide the location description and the latitude and longitude of a single point near the center of the Working Pad Surface as a reference for this Location.

Quarter: SESW Section: 13 Township: 5N Range: 67W Meridian: 6 Ground Elevation: 4930  
Latitude: 40.394580 Longitude: -104.842610  
GPS Quality Value: 1.6 Type of GPS Quality Value: PDOP Date of Measurement: 06/16/2022

## 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 #

## RELEVANT LOCAL GOVERNMENT SITING INFORMATION

County: WELD Municipality: Greeley

Per § 34-60-106 (1)(f)(I)(A), the following questions pertain to the "Relevant Local Government approval of the siting of the proposed oil and gas location."

This proposed Oil and Gas Location is in an area designated as one of State interest and subject to the requirements of § 24-65.1-108, C.R.S. Yes

Does the Relevant Local Government regulate the siting of Oil and Gas Locations, with respect to this location? Yes

A siting permit application has been submitted to the Relevant Local Government for this proposed Oil and Gas Location: Yes

Date Relevant Local Government permit application submitted: 08/18/2022

Current status or disposition of the Relevant Local Government permit application for this proposed Oil and Gas Location: Approved

Status/disposition date: 01/10/2023

If Relevant Local Government permit has been approved or denied, attach final decision document(s).

Provide the contact information for the Relevant Local Government point of contact for the local permit associated with this proposed Oil and Gas Location:

Contact Name: Michael Franke Contact Phone: 970-350-9782

Contact Email: michael.franke@greeleygov.com

## PROXIMATE LOCAL GOVERNMENT INFORMATION

For every Proximate Local Government (PLG) associated with this proposed Oil and Gas Location, provide the PLG's point of contact and their contact information.

Type of Proximate Govt	County	Municipality	Contact Name	Contact Phone	Contact Email
County	WELD		Jason Maxey	970-400-3579	jmaxey@weldgov.com

## FEDERAL PERMIT INFORMATION

A Federal drilling permit (or related siting application) has been submitted for this proposed Oil and Gas Location: No

Date submitted: \_\_\_\_\_

Current status or disposition of the Federal drilling permit (or related siting application) for this proposed Oil and Gas Location: \_\_\_\_\_

Status/disposition Date: \_\_\_\_\_

If Federal agency permit has been approved or denied, attach the final decision document(s).

Provide the contact information of the Federal point of contact for the Federal permit associated with this proposed Oil and Gas Location.

Contact Name: \_\_\_\_\_ Contact Phone: \_\_\_\_\_

Contact Email: \_\_\_\_\_ Field Office: \_\_\_\_\_

Additional explanation of local and/or federal process:

## RELEVANT LOCAL GOVERNMENT OR FEDERAL PRE-APPLICATION CONSULTATION

Complete this section for any pre-application consultation related to this proposed Oil and Gas Location that occurred prior to the submission of this Form 2A. If a pre-application Formal Consultation Process occurred, attach a Consultation Summary.

Did a pre-application Formal Consultation Process occur with the Relevant Local Government per Rule 301.f.(3)? No

Date of local government consultation: \_\_\_\_\_

Did a pre-application Formal Consultation Process occur with the Federal land manager per Rule 301.f.(3)? No

Date of federal consultation: \_\_\_\_\_

Was an ALA that satisfies Rule 304.b.(2).C (or substantially equivalent information per Rule 304.e) developed during a federal or local government permit application process? If yes, attach the ALA to the Form 2A. No

## ALA APPLICABILITY AND CRITERIA

Complete this section for any pre-application consultation related to this proposed Oil and Gas Location that occurred prior to the submission of this Form 2A. If a pre-application Formal Consultation Process occurred, attach a Consultation Summary.

Does the proposed Oil and Gas Location meet any of the criteria listed in Rule 304.b.(2)B? No

If YES, indicate by checking the box for every Rule 304.b.(2).B criterion met by this proposed Location, and attach an ALA. See Rule 304.b.(2).B.i-x for full text of criteria.

- |   |   |
|---|---|
| <input type="checkbox"/> i. WPS < 2,000 feet from RBU/HOB   | <input type="checkbox"/> vi.aa. WPS within a surface water supply area                                  |
| <input type="checkbox"/> ii. WPS < 2,000 feet from School/Child Care Center                             | <input type="checkbox"/> vi.bb. WPS < 2,640 feet from Type III or GUDI well                             |
| <input type="checkbox"/> iii. WPS < 1,500 feet from DOAA  | <input checked="" type="checkbox"/> vii. WPS within/immediately upgradient of wetland/riparian corridor |
| <input type="checkbox"/> iv. WPS < 2,000 feet from jurisdictional boundary and PLG objects/requests ALA | <input checked="" type="checkbox"/> viii. WPS within HPH and CPW did not waive                          |
| <input type="checkbox"/> v. WPS within a Floodplain   | <input type="checkbox"/> ix. Operator using Surface bond  |
|   | <input type="checkbox"/> x. WPS < 2,000 feet from RBU/HOB/School within a DIC                           |

Is the proposed Oil and Gas Location within the exterior boundaries of the Southern Ute Indian Reservation, and the Tribe objects to the Location or requests an ALA? If YES, attach an ALA to the Form 2A. No

Operator requests the Director waive the ALA requirement per Rule 304.b.(2).A.i: ☐

Provide an explanation for the waiver request, and attach supporting information (if necessary).

## ALTERNATIVE LOCATIONS DASHBOARD

List every alternative location reviewed and included in the ALA. Provide a latitude and longitude for the approximate center of the alternative location, all Rule 304.b.(2).B Criteria met, if a variance would be required to permit the location, and a brief comment on the key points of the alternative location.

304.b.(2).B.i-x Criteria Met:

< No row provided >

## SURFACE & MINERAL OWNERSHIP

**Surface Owner Info:**Name: Matthew ChismarPhone: 970-590-7310Address: 2577 E County Road 60

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

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

Email: chefchiz@yahoo.comCity: Wellington State: CO Zip: 80549Surface Owner at this Oil and Gas Location: ☒ Fee ☐ State ☐ Federal ☐ Indian

Check only one:

☐ The Operator/Applicant is the surface owner.☒ The Operator has a signed Surface Use Agreement for this Location – attach SUA.☐ All operations on this Oil & Gas Location will develop the minerals beneath the Location, and the surface owner owns the minerals beneath this Location and is committed to an oil and gas lease – attach lease map or provide lease description.☐ All operations on this Oil & Gas Location will develop the minerals beneath the Location, and the Operator intends to use a surface bond per Rule 703 to secure access to this Location – attach lease map or provide lease description.Surface Owner protection Financial Assurance type: N/A

Surety ID Number: \_\_\_\_\_

Mineral Owner beneath this Oil and Gas Location: ☒ Fee ☐ State ☐ Federal ☐ IndianMinerals beneath this Oil and Gas Location will be developed from or produced to this Oil and Gas Location: Yes

Lease description if necessary: \_\_\_\_\_

**SITE EQUIPMENT LIST**

Indicate the number and type of major equipment components planned for use on this Oil and Gas Location:

Wells <u>23</u>	Oil Tanks <u>0</u>	Condensate Tanks <u>0</u>	Water Tanks <u>2</u>	Buried Produced Water Vaults <u>1</u>
Drilling Pits <u>0</u>	Production Pits <u>0</u>	Special Purpose Pits <u>0</u>	Multi-Well Pits <u>0</u>	Modular Large Volume Tank <u>0</u>
Pump Jacks <u>0</u>	Separators <u>23</u>	Injection Pumps <u>0</u>	Heater-Treaters <u>0</u>	Gas Compressors <u>0</u>
Gas or Diesel Motors <u>0</u>	Electric Motors <u>0</u>	Electric Generators <u>0</u>	Fuel Tanks <u>0</u>	LACT Unit <u>0</u>
Dehydrator Units <u>0</u>	Vapor Recovery Unit <u>2</u>	VOC Combustor <u>0</u>	Flare <u>0</u>	Enclosed Combustion Devices <u>0</u>
Meter/Sales Building <u>1</u>	Pigging Station <u>0</u>	Vapor Recovery Towers <u>0</u>		

**OTHER PERMANENT EQUIPMENT**

Permanent Equipment Type	Number
Combustors	8
Maintenance Tank	2
Unloading Separator	1
Oil LACT	3
Tank/Surge VRUs	3
Instrument Air Compressors	3
Automation Tower	1
Blow Case	1
2 Phase Vertical Separators	2
Separator LP VRUs	3
Water LACT	2

**OTHER TEMPORARY EQUIPMENT**



Temporary Equipment Type	Number
Temporary Water Combustor	1
Temporary Water Tanks	6

## GAS GATHERING COMMITMENT

Operator commits to connecting to a gathering system by the Commencement of Production Operations? Yes

If the answer is NO, a Gas Capture Plan consistent with the requirements of Rule 903.e MUST be attached on the Plans tab.

## FLOWLINE DESCRIPTION

Per Rule 304.b.(6), provide a description of all onsite and off-location oil, gas, and/or water flowlines.

Each well will have a flow line, oil production line, water production line and a backpressure line, each battery will have a gas sales line. Oil production line and flow lines are 3 inch steel SCH 80FB PE DRL. Water production line and low pressure gas vent lines are 2 inch SDR7 poly. Gas sales lines installed and maintained by Gas Purchaser, normally 6 inch steel .256 FBE.

## CULTURAL DISTANCE AND DIRECTION

Provide the distance and direction to the nearest cultural feature as measured from the edge of the Working Pad Surface.

		Distance		Direction		Rule 604.b Conditions Satisfied (check all that apply):			Details of Condition(s)	604.b. (4)
						604.b. (1)	604.b. (2)	604.b. (3)		
Building:	2173	Feet		SE		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Residential Building Unit (RBU):	2378	Feet		SE		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
High Occupancy Building Unit(HOBU)	5280	Feet		SE		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Designated Outside Activity Area:	5280	Feet		SE						
Public Road:	2664	Feet		E						
Above Ground Utility:	1811	Feet		NE						
Railroad:	5280	Feet		SE						
Property Line:	84	Feet		SE						
School Facility:	5280	Feet		NE						
Child Care Center:	5280	Feet		NE						
Disproportionately Impacted (DI) Community:	5280	Feet		E						
RBU, HOBU, or School Facility within a DI Community.	5280	Feet		E		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>

## RULE 604.a.(2). EXCEPTION LOCATION REQUEST

☐ Operator requests an Exception Location Request from Rule 604.a.(2) [well is less than 150 feet from a property line]. Exception Location Request Letter and Waiver signed by offset Surface Owner(s) must be attached.

## CULTURAL FEATURE INFORMATION REQUIRED BY RULE 304.b.(3).B.

Provide the number of each Cultural feature identified within the following distances, as measured from the Working Pad Surface:

	0-500 feet	501-1,000 feet	1,001-2,000 feet
Building Units	0	0	0
Residential Building Units	0	0	0
High Occupancy Building Units	0	0	0
School Properties	0	0	0
School Facilities	0	0	0

Designated Outside Activity Areas 0 0 0

## CONSTRUCTION

Size of disturbed area during construction in acres: 16.20

Size of location after interim reclamation in acres: 6.90

Estimated post-construction ground elevation: 4926

## DRILLING PROGRAM

Will a closed-loop drilling system be used? Yes

Is H2S gas reasonably expected to be encountered during drilling operations at concentrations greater than or equal to 100 ppm? No If YES, attach H2S 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

## 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:

Beneficial reuse or land application plan submitted? No

Reuse Facility ID: or Document Number:

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

## CURRENT LAND USE

Current Land Use: check all that apply per Rule 304.b.(9).

Crop Land: ☒ Irrigated ☐ Non-Irrigated ☐ Conservation Reserve Program (CRP)

Non-Crop Land: ☐ Rangeland ☐ Forestry ☐ Recreation ☐ Other

Subdivided: ☐ Industrial ☐ Commercial ☐ Residential

Describe the current land use:

Active Sod Farm

Describe the Relevant Local Government's land use or zoning designation:

Agricultural

Describe any applicable Federal land use designation:

## FINAL LAND USE

Final Land Use: check all that apply per Rule 304.b.(9).

Crop Land: ☒ Irrigated ☐ Non-Irrigated ☐ Conservation Reserve Program (CRP)

Non-Crop Land: ☐ Rangeland ☐ Forestry ☐ Recreation ☐ Other

Subdivided: ☐ Industrial ☐ Commercial ☐ Residential

## REFERENCE AREA INFORMATION

If Final Land Use includes Non-Crop Land (as checked above), the following information is required:

Describe landowner's designated final land use(s):

Reference Area Latitude: \_\_\_\_\_

Reference Area Latitude: \_\_\_\_\_

Provide a list of plant communities and dominant vegetation found in the Reference Area.

< No row provided >

Noxious weeds present: No

## SOILS

List all soil map units that occur within the maximum extent of the proposed Oil and Gas Location. Attach the National Resource Conservation Service (NRCS) report showing the "Map Unit Description" listing the typical vertical soil profile(s). This data is to be used when segregating topsoil.

The required information can be obtained from the NRCS website at <https://www.nrcs.usda.gov/wps/portal/nrcs/surveylist/soils/survey/state/> or from the COGCC website GIS Online map page. Instructions are provided within the COGCC website help section.

NRCS Map Unit Name: 47- Olney fine sandy loam, 1-3% slopes

NRCS Map Unit Name: 53- Otero sandy loam, 5-9% slopes

NRCS Map Unit Name: 26- Haverson loam, 1-3% slopes

## GROUNDWATER AND WATER WELL INFORMATION

Provide the distance and direction, as measured from the Working Pad Surface, to the nearest:

water well: 3710 Feet E

Spring or Seep: 5280 Feet E

Estimated depth to shallowest groundwater that can be encountered at this Oil and Gas Location: 24 Feet

Basis for estimated depth to and description of shallowest groundwater occurrence:

Depth to groundwater estimate is based on static water level of water well permit #1565413. The water well located approximately 3500' E of the location was never constructed.

## SURFACE WATER AND WETLANDS

Provide the distance and direction to the nearest downgradient surface Waters of the State, as defined 1495 Feet NE

in the 100-Series Rules, measured from the Working Pad Surface:

If less than 2,640 feet, is the Waters of the State identified above within 15 stream miles upstream of a Public Water System intake? No

Provide the distance and direction to the nearest downgradient wetland, measured from the Working Pad Surface: 1495 Feet NE

Provide a description of the nearest downgradient surface Waters of the State:

Nearest mapped downgradient surface Waters of the State shown on the Hydrology Map is the wetland near the NE corner of the pad. Please note this riverine was not visible on the ground at the time of surveying. See Hydrology Map for additional survey information. The actual nearest Surface Waters of the State is a wetland.

If the proposed Oil and Gas Location is within a Rule 411.a Surface Water Supply Area buffer zone, select the buffer zone type: \_\_\_\_\_

Public Water System Administrator - Contact Name \_\_\_\_\_ Email \_\_\_\_\_

If the proposed Oil and Gas Location is within a Rule 411.b GUDI/Type III buffer zone, select the buffer zone type: \_\_\_\_\_

Public Water System Administrator - Contact Name \_\_\_\_\_ Email \_\_\_\_\_

Is a U.S. Army Corps of Engineers Section 404 permit required for the proposed Oil and Gas Location, access road, or associated pipeline corridor? No

If a U.S. Army Corps of Engineers Section 404 permit is required, provide the permit status, and permit number if available:

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

☒ Federal (FEMA) ☒ State ☒ County ☒ Local

☐ Other

Does this proposed Oil and Gas Location lie within a Sensitive Area for water resources, as defined in the 100-Series Rules? No

## CONSULTATION, WAIVERS, AND EXCEPTIONS

When Rule 309.e.(2) Consultation must occur, check all that apply:

- ☒ This location is included in a Wildlife Mitigation Plan
- ☐ This Oil and Gas Location or associated new access road, utility, or pipeline corridor falls within federally designated critical habitat or an area with a known occurrence for a federal or Colorado threatened or endangered species. Provide description in Comments section of Submit tab.
- ☐ This Oil and Gas Location or associated new access road, utility, or pipeline corridor falls within an existing conservation easement established wholly or partly for wildlife habitat. Provide description in Comments section of Submit tab.

When Rule 309.e.(3) Consultation is not required, check all that apply:

- ☐ This Oil and Gas Location has been included in a previously approved, applicable Wildlife Protection Plan.
- ☐ This Oil and Gas Location has been included in a previously approved, applicable Wildlife Mitigation Plan.
- ☐ This Oil and Gas Location has been included in a previously approved, applicable conservation plan.

Pre-application Consultation:

- ☒ A pre-application consultation with CPW, regarding this Oil and Gas Location, occurred 01/20/2023 on:

### CPW Waivers and Exceptions (check all that apply and attach all CPW waivers to this Form 2A):

- ☐ The applicant has obtained a Rule 304.b.(2).B.viii CPW waiver for the requirement to complete an ALA.
- ☐ The applicant has obtained a Rule 309.e.(2).G CPW waiver and consultation is not required.
- ☐ The applicant has obtained a Rule 309.e.(5).D.i CPW waiver and is requesting an exception from Rule 1202.c.(1).R.
- ☐ The applicant has obtained a Rule 309.e.(5).D.ii CPW waiver and is requesting an exception from Rule 1202.c.(1).S.
- ☐ The applicant has obtained a Rule 309.e.(5).D.iii CPW waiver of Rule 1202.c.(1).T.
- ☐ The applicant has obtained a Rule 309.e.(5).D.iv CPW waiver and is requesting an exception from Rule 1202.c.(1) in accordance with an approved CAP.
- ☐ The applicant has obtained a Rule 1202.a CPW waiver.



- ☐ The applicant has obtained a Rule 1202.b CPW waiver.
- ☐ In accordance with Rule 1203.a.(3), the applicant requests an exception from compensatory mitigation  
Rule(s): \_\_\_\_\_

## HIGH PRIORITY HABITAT AND COMPENSATORY MITIGATION

This Oil and Gas Location, associated access roads, utility, or Pipeline corridor falls wholly or partially within the following High Priority Habitats (Note: dropdown options are abbreviated - see Rule 1202 for full rule text):

< No row provided >

The following questions are for Oil and Gas Locations that cause the density to exceed one Oil and Gas Location per square mile in Rule 1202.d High Priority Habitat:

### Direct Impacts:

Is Compensatory Mitigation required per Rule 1203.a for this Oil and Gas Location? No

Is a Compensatory Mitigation Plan proposed to address direct impacts for this Oil and Gas Location? No

Have all Compensatory Mitigation Plans been approved for this Location? No

If not, what is the current status of each Plan?

Plan is not required

Is a Compensatory Mitigation Fee proposed for this Oil and Gas Location? No

Direct impact habitat mitigation fee amount: \$ \_\_\_\_\_

### Indirect Impacts:

Is Compensatory Mitigation required per Rule 1203.d for this Oil and Gas Location? No

Is a Compensatory Mitigation Plan proposed to address indirect impacts for this Oil and Gas Location? No

Have all Compensatory Mitigation Plans been approved for this Location? No

If not, what is the current status of each Plan?

Plan is not required

Is a Compensatory Mitigation Fee proposed for this Oil and Gas Location? No

Indirect impact habitat mitigation fee amount: \$ \_\_\_\_\_

## Operator Proposed Wildlife BMPs

No	Target Species	BMP Type	Description
1	BALD EAGLE	Wildlife - Minimization	In accordance with the CPW agreed upon mitigation on 1/20/23, PDC will adhere to the following best management practices for the protection of the Bald Eagle Nest Site located within 1/2 mile of the proposed location: Operator will drill both Bypass and Denali locations using an electrified rig Operator will not start construction until on or after February 1st Operator will not begin drilling with production rig until on or after May 1st Operator will begin drilling the eastern wells and then work towards the western string Operator will continue to monitor the eagle nest throughout all development

## AIR QUALITY MONITORING PROGRAM

Will the Operator install and administer an air quality monitoring program at this Location? Yes

## Operator Proposed BMPs

No	BMP Target	CDPHE Recommendation	COGCC Action
	PFAS		
	Description	If PFAS-containing foam is used at a location: operator will properly capture and dispose of PFAS-contaminated soil and fire and flush water	
	CDPHE Comment		
	Air		
	Description	Tankless design: Operator will not store produced water or hydrocarbon liquids in storage tanks on site (other than a maintenance tank possibly used for well unloading or other maintenance activities).	
	CDPHE Comment		
	Air		
	Description	Ozone mitigation on forecasted high ozone days: operator will minimize vehicle and engine idling	
	CDPHE Comment		
	Water		
	Description	Dust suppression: Operator will not use produced water or other process fluids for dust suppression	
	CDPHE Comment		
	PFAS		
	Description	If PFAS-containing foam is used at a location: operator will perform appropriate soil and water sampling to determine whether additional characterization is necessary and inform the need for and extent of interim or permanent remedial actions	
	CDPHE Comment		
	Water		
	Description	Down gradient controls: Operator will install adequate down gradient controls if they can not have a control at the source	
	CDPHE Comment		
	Air		
	Description	Pipelines: Operator will have adequate and committed pipeline take away capacity for all produced gas and oil	
	CDPHE Comment		
	Air		
	Description	Odor mitigation: operator will use a squeegee or other device to remove drilling fluids from pipes as they exit the wellbore	
	CDPHE Comment		
	Waste		
	Description	Operator will properly test for and dispose of TENORM	
	CDPHE Comment		
	PFAS		
	Description	If PFAS-containing foam is used at a location: operator will properly characterize the site to determine the level, nature and extent of contamination	
	CDPHE Comment		
	Air		
	Description	Venting/Flaring: Operator will not flare or vent gas during completion or flowback, except in upset or emergency conditions, or with prior written approval from the Director for necessary maintenance operations	
	CDPHE Comment		

	PFAS		
Description	Operator will provide funding for nearby fire district(s) to support transition away from PFAS-containing foam		
CDPHE Comment			
Air			
Description	Electrification: Operator will use electric equipment and devices (e.g. vapor recovery units or VRUs, fans, etc.) to minimize combustion sources on site (if yes, operator will provide a list outlining which equipment and devices will be electrified)		
CDPHE Comment			
Air			
Description	Operator will properly maintain vehicles and equipment		
CDPHE Comment			
Water			
Description	Operator will use Modular Large Volume Storage Tanks		
CDPHE Comment			
Air			
Description	Venting/Flaring: Operator will control emergency flaring with an enclosed combustor with a destruction efficiency of 98% or better		
CDPHE Comment			
Air			
Description	Odor mitigation: Operator will ensure that all drilling fluid is removed from pipes before storage		
CDPHE Comment			
Air			
Description	Pipelines: Operator will use pipelines to transport water for hydraulic fracturing to and from location		
CDPHE Comment			
Air			
Description	Ozone mitigation on forecasted high ozone days: operator will reduce truck traffic and worker traffic		
CDPHE Comment			
PFAS			
Description	Operator will coordinate with nearby fire district(s) to evaluate whether PFAS-free foam can provide the required performance for the specific hazard		
CDPHE Comment			
Air			
Description	Odor mitigation: operator will use zero VOC (group III, low/negligible odor) drilling mud		
CDPHE Comment			
Water			
Description	Outfall locations: Outlet protection should be used when a conveyance discharges onto a disturbed area where there is potential for accelerated erosion due to concentrated flow. Outlet protection should be provided where the velocity at the culvert outlet exceeds the maximum permissible velocity of the material in the receiving channel.		
CDPHE Comment			
Air			
Description	Odor mitigation: operator will cover trucks transporting drill cuttings		
CDPHE Comment			

Air		
Description	Operator will use lease automated custody transfer (LACT) system to remove/reduce the need for truck loadout	
CDPHE Comment		
Air		
Description	Electrification: Operator will use electric drilling rigs	
CDPHE Comment		
Water		
Description	Stormwater inspections: Operator will conduct stormwater inspections immediately after storm event	
CDPHE Comment		
Air		
Description	Venting/Flaring: Operator will control bradenhead/casinghead venting	
CDPHE Comment		
Air		
Description	Operator will use non-emitting pneumatic controllers	
CDPHE Comment		
Air		
Description	Operator will use vapor recovery units (VRUs) to capture and route storage vessel gas to pipeline	
CDPHE Comment		
Air		
Description	Pipelines: Operator will shut in the facility to reduce the need for flaring if the pipeline is unavailable	
CDPHE Comment		
Water		
Description	Documentation / stormwater management plan: If it is infeasible to install or repair a control measure immediately after discovering a deficiency, operator will document and keep on record in the stormwater management plan: (a) a description of why it is infeasible to initiate the installation or repair immediately; and (b) a schedule for installing or repairing the control measure and returning it to an effective operating condition as soon as possible.	
CDPHE Comment		
Water		
Description	Secondary containment: Operator will install perimeter controls to control potential sediment-laden runoff in the event of spill or release from Modular Large Volume Storage Tank	
CDPHE Comment		
Air		
Description	Engines: Operator will use tier IV or better engines for hydraulic fracturing	
CDPHE Comment		
Air		
Description	Ozone mitigation on forecasted high ozone days: operator will postpone the refueling of vehicles	
CDPHE Comment		
Water		
Description	CPGCC permit will incorporate other agency water quality protection plans by reference as applicable (e.g. stormwater management plan)	



CDPHE Comment	
Air	
Description	Operator will implement ambient air quality monitoring on site
CDPHE Comment	
Air	
Description	Pipelines: Operator will incorporate options for recycling produced gas onsite during pipeline downtime, such as: using the gas for gas lift systems, routing it to the facility fuel system, or installing a natural gas liquid (NGL) skid to process the gas onsite
CDPHE Comment	
Waste	
Description	Operator will properly characterize and dispose of all waste (i.e. the specific landfill/waste disposal location allows for acceptance of the waste stream)
CDPHE Comment	
Water	
Description	Stream crossing and Road Construction: Operator will ensure that control measures are designed, installed and adequately sized in accordance with good engineering, hydrologic and pollution control practices
CDPHE Comment	

## PLANS

Total Plans                      15  
 Uploaded:

- ☐ (1) Emergency Spill Response Program consistent with the requirements of Rules 411.a.(4).B, 411.b.(5).B, & 602.j
- ☒ (2) Noise Mitigation Plan consistent with the requirements of Rule 423.a
- ☒ (3) Light Mitigation Plan consistent with the requirements of Rule 424.a
- ☒ (4) Odor Mitigation Plan consistent with the requirements of Rule 426.a
- ☒ (5) Dust Mitigation Plan consistent with the requirements of Rule 427.a
- ☒ (6) Transportation Plan
- ☒ (7) Operations Safety Management Program consistent with the requirements of Rule 602.d
- ☒ (8) Emergency Response Plan consistent with the requirements of Rule 602.j
- ☐ (9) Flood Shut-In Plan consistent with the requirements of Rule 421.b.(1)
- ☐ (10) Hydrogen Sulfide Drilling Operations Plan consistent with the requirements of Rule 612.d
- ☒ (11) Waste Management Plan consistent with the requirements of Rule 905.a.(4)
- ☐ (12) Gas Capture Plan consistent with the requirements of Rule 903.e
- ☒ (13) Fluid Leak Detection Plan
- ☒ (14) Topsoil Protection Plan consistent with the requirements of Rule 1002.c
- ☒ (15) Stormwater Management Plan consistent with the requirements of Rule 1002.f
- ☒ (16) Interim Reclamation Plan consistent with the requirements of Rule 1003
- ☒ (17) Wildlife Plan consistent with the requirements of Rule 1201
- ☒ (18) Water Plan
- ☒ (19) Cumulative Impacts Plan
- ☐ (20) Community Outreach Plan
- ☐ (21) Geologic Hazard Plan

## VARIANCE REQUESTS

Check all that apply:

- ☐ This proposed Oil and Gas Location requires the approval of a Rule 502.a variance from COGCC Rule or Commission

Order number: \_\_\_\_\_

ALL exceptions and variances require attached Request Letter(s). Refer to applicable rule for additional required attachments (e.g. waivers, certifications, SUAs).

## RULE 304.d LESSER IMPACT AREA EXEMPTION REQUESTS

Check the boxes below for all Exemptions being requested. Lesser Impact Area Exemption Request must be attached, and will include all requested exemptions.

- |  |  |
|--|--|
| <input type="checkbox"/> 304.b.(1). Local Government Siting Information      | <input type="checkbox"/> 304.c.(1). Emergency Spill Response Program           |
| <input type="checkbox"/> 304.b.(2). Alternative Location Analysis            | <input type="checkbox"/> 304.c.(2). Noise Mitigation Plan                      |
| <input type="checkbox"/> 304.b.(3). Cultural Distances                       | <input type="checkbox"/> 304.c.(3). Light Mitigation Plan                      |
| <input type="checkbox"/> 304.b.(4). Location Pictures                        | <input type="checkbox"/> 304.c.(4). Odor Mitigation Plan                       |
| <input type="checkbox"/> 304.b.(5). Site Equipment List                      | <input type="checkbox"/> 304.c.(5). Dust Mitigation Plan                       |
| <input type="checkbox"/> 304.b.(6). Flowline Descriptions                    | <input type="checkbox"/> 304.c.(6). Transportation Plan                        |
| <input type="checkbox"/> 304.b.(7). Drawings                                 | <input type="checkbox"/> 304.c.(7). Operations Safety Management Program       |
| <input type="checkbox"/> 304.b.(8). Geographic Information System (GIS) Data | <input type="checkbox"/> 304.c.(8). Emergency Response Plan                    |
| <input type="checkbox"/> 304.b.(9). Land Use Description                     | <input type="checkbox"/> 304.c.(9). Flood Shut-In Plan                         |
| <input type="checkbox"/> 304.b.(10). NRCS Map Unit Description               | <input type="checkbox"/> 304.c.(10). Hydrogen Sulfide Drilling Operations Plan |
| <input type="checkbox"/> 304.b.(11). Best Management Practices               | <input type="checkbox"/> 304.c.(11). Waste Management Plan                     |
| <input type="checkbox"/> 304.b.(12). Surface Owner Information               | <input type="checkbox"/> 304.c.(12). Gas Capture Plan                          |
| <input type="checkbox"/> 304.b.(13). Proximate Local Government              | <input type="checkbox"/> 304.c.(13). Fluid Leak Detection Plan                 |
| <input type="checkbox"/> 304.b.(14). Wetlands                                | <input type="checkbox"/> 304.c.(14). Topsoil Protection Plan                   |
| <input type="checkbox"/> 304.b.(15). Schools and Child Care Centers          | <input type="checkbox"/> 304.c.(15). Stormwater Management Plan                |
|  | <input type="checkbox"/> 304.c.(16). Interim Reclamation Plan                  |
|  | <input type="checkbox"/> 304.c.(17). Wildlife Plan                             |
|  | <input type="checkbox"/> 304.c.(18). Water Plan                                |
|  | <input type="checkbox"/> 304.c.(19). Cumulative Impacts Plan                   |
|  | <input type="checkbox"/> 304.c.(20). Community Outreach Plan                   |
|  | <input type="checkbox"/> 304.c.(21). Geologic Hazard Plan                      |

## OPERATOR COMMENTS AND SUBMITTAL

Comments	<p>Additional NRCS Map Unit Description: 76-Voma sandy loam, 1-3% slopes.</p> <p>Six temporary water tanks will be onsite during the initial production phase of the well, estimated time 6-9 months.</p> <p>PDC plans to transport oil from this location via pipeline. Maintenance tanks will remain on location for safety concerns related to an unplanned oil gathering pipeline shut downs and for routine maintenance operations.</p> <p>Emergency Spill Response Program, Flood Shut In Plan, Hydrogen Sulfide Drilling Operations, Gas Capture Plan, and Geologic Hazard plans are not attached, nor is a Lesser Impact Area Exemption being requested as this location does not trigger any of the elements requiring said plans.</p> <p>The alternative location analysis attached is for reference only as the review was conducted as part of the Guanella CAP. Preliminary Siting Approval has been granted for this location, therefore no additional alternative location analysis is required.</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: 02/03/2023 Email: venessa.chase@pdce.com

Print Name: Venessa Chase

Title: Regulatory Manager

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

0 COA

### Best Management Practices

#### No BMP/COA Type

#### Description

### Attachment List

#### Att Doc Num

#### Name

403311756	CONSULTATION SUMMARY
403311768	SURFACE AGRMT/SURETY
403311782	NRCS MAP UNIT DESC
403311794	CONSULTATION SUMMARY
403311839	ACCESS ROAD MAP
403311842	CULTURAL FEATURES MAP
403311847	LAYOUT DRAWING
403311854	LOCATION DRAWING
403311857	LOCATION PICTURES
403311858	HYDROLOGY MAP
403311859	GEOLOGIC HAZARD MAP
403311860	WILDLIFE HABITAT DRAWING
403311861	DIRECTIONAL WELL PLAT
403311862	PRELIMINARY PROCESS FLOW DIAGRAMS
403311863	ALA NARRATIVE SUMMARY
403311884	OTHER
403311982	LOCAL/FED FINAL PERMIT DECISION
403356596	LOCATION AND WORKING PAD GIS SHP
403357096	RELATED LOCATION AND FLOWLINE MAP

Total Attach: 19 Files

## General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
OGLA	Returned to DRAFT for operator to make corrections.	05/31/2023

Total: 1 comment(s)





## **Public Comments**

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

