**FORM** 2A Rev

04/18

# State of Colorado **Oil and Gas Conservation Commission**

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 894-2100 Fax: (303) 894-2109

**Oil and Gas Location Assessment** 

Document I	Number:
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08/24/2018

New Location Refile Amend Existing Location Loc	cation#:	
This Oil and Gas Location Assessment is to be submitted to the COGCC for approval p activity associated with oil and gas operations. Approval of this Oil and Gas Location A construction of the below specified Location; however, it does not supersede any land u land use authority. Please see the COGCC website at http://cogcc.state.co.us/ for all appertinent this Oil and Gas Location Assessment.	ssessment will allow for the use rules applied by the local	Location ID:  459355  Expiration Date:  11/28/2021
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	<b>Contact Information</b>	
Operator Number: 69175	Name: Ally Ota	
Name: PDC ENERGY INC	Phone: (303) 860-580	00
Address: 1775 SHERMAN STREET - STE 3000	Fax: ( )	
City: DENVER State: CO Zip: 80203	email: alexandria.ota	a@pdce.com
FINANCIAL ASSURANCE		
X  Plugging and Abandonment Bond Surety ID (Rule 706): 20160047	Gas Facility Surety ID	(Rule 711):
Waste Management Surety ID (Rule 704):		
LOCATION IDENTIFICATION		
Name: Pharaoh Num	nber: 5N64W36 1-5	
County: WELD	311041130 1-3	
QuarterQuarter: NESE Section: 36 Township: 5N Range:	64W Meridian: 6	Ground Elevation: 4593
Define a single point as a location reference for the facility location. When the la a well location.	ocation is to be used as a w	rell site then the point shall be
Footage at surface: 1713 feet FSL from North or South section line		
455 feet FEL from East or West section line		
Latitude: 40.353385 Longitude: -104.489912		
PDOP Reading: 1.9 Date of Measurement: 05/05/2017		
Instrument Operator's Name: Jason Dahlman		

This proposed Oil and O	Sas Location is:	LOCATION ID #	# FORM 2A DOC #		
FACILITIES					
Indicate the number of each	type of oil and gas facilit	v planned on location			
Wells 5	Oil Tanks* 1		Water Tanks*	Buried Produced Water Vaults*	
Drilling Pits	Production Pits*	- Special Purpose Pits	Multi-Well Pits*	– Modular Large Volume Tanks	
Pump Jacks	Separators*	Injection Pumps*	Cavity Pumps*	— Gas Compressors*	
Gas or Diesel Motors*	Electric Motors	Electric Generators*	1 Fuel Tanks*	LACT Unit*	
Dehydrator Units*	Vapor Recovery Unit*	VOC Combustor*	7 Flare*	Pigging Station*	
OTHER FACILITIES*					
Other Facility Type			<u>Number</u>		
Other Facility Type Meters			Number 1		
			<u>Number</u> 1 1		
Meters Blow Case Temporary Water Tank Those facilities indicated by cultural feature on the Culture	y an asterisk (*) shall be ι ral Setbacks Tab.		1 1 4	ction Facility to the nearest	
Meters Blow Case Temporary Water Tank Those facilities indicated by cultural feature on the Culture Per Rule 303.b.(3)C, descrip Each well will have a flow	y an asterisk (*) shall be ural Setbacks Tab.  ption of all oil, gas, and/or line, oil production line, voline and flow lines are 3 in	water pipelines: water production line and steel SCH 80FB P	distance from the Production of a backpressure line, and a backpressure	each battery will have a gas n line and low pressure gas vent	
Meters Blow Case Temporary Water Tank Those facilities indicated by cultural feature on the Cultu Per Rule 303.b.(3)C, descrip Each well will have a flow sales line. Oil production lines are 2 inch SDR7 pol	y an asterisk (*) shall be ural Setbacks Tab.  ption of all oil, gas, and/or line, oil production line, voline and flow lines are 3 in	water pipelines: water production line and steel SCH 80FB P	distance from the Production of a backpressure line, and a backpressure	each battery will have a gas n line and low pressure gas vent	
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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:
Drill cuttings will be land applied at PDC spread fields with COGCC Facility ID 449950 or 448329.
Beneficial reuse or land application plan submitted? Yes
Reuse Facility ID: 449950 or Document Number:
Centralized E&P Waste Management Facility ID, if applicable:
SURFACE & MINERALS & RIGHT TO CONSTRUCT
Name: Lower Latham Reservoir Co Phone: 970-381-2044
Address: 8209 W. 20th Street, Suite A Fax:
Address: Email:
City: Greeley State: CO Zip: 80634
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 Surface Surety ID:
Date of Rule 306 surface owner consultation03/30/2017
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):
Future Land Use (Check all that apply):  Crop Land:   Irrigated   Dry land   Improved Pasture   Hay Meadow   CRP
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Crop Land: ☐ Irrigated ☐ Dry land ☐ Improved Pasture ☐ Hay Meadow ☐ CRP
Crop Land:       ▼ Irrigated       □ Dry land       □ Improved Pasture       □ Hay Meadow       □ CRP         Non-Crop Land:       □ Rangeland       □ Timber       □ Recreational       □ Other (describe):
Crop Land:       ▼ Irrigated       □ Dry land       □ Improved Pasture       □ Hay Meadow       □ CRP         Non-Crop Land:       □ Rangeland       □ Timber       □ Recreational       □ Other (describe):
Crop Land:       ▼ Irrigated       □ Dry land       □ Improved Pasture       □ Hay Meadow       □ CRP         Non-Crop Land:       □ Rangeland       □ Timber       □ Recreational       □ Other (describe):
Crop Land:       ▼ Irrigated       □ Dry land       □ Improved Pasture       □ Hay Meadow       □ CRP         Non-Crop Land:       □ Rangeland       □ Timber       □ Recreational       □ Other (describe):

#### CULTURAL DISTANCE INFORMATION

Provide the distance to the nearest cultural feature as measured from Wells or Production Facilities onsite.

	From WELL		FROM PRODUCTIO FACILITY	
Building:	342	Feet	407	Feet
Building Unit:	519	Feet	505	Feet
High Occupancy Building Unit:	5280	Feet	5280	Feet
Designated Outside Activity Area:	5280	Feet	5280	Feet
Public Road:	443	Feet	248	Feet
Above Ground Utility:	480	Feet	286	Feet
Railroad:	5280	Feet	5280	Feet
Property Line:	455	Feet	260	Feet

#### INSTRUCTIONS:

- All measurements shall be provided from center of nearest Well or edge of nearest Production Facility to nearest of each cultural feature as described in Rule 303.b. (3)A.
- Enter 5280 for distance greater than 1 mile.
- Building nearest building of any type. If nearest Building is a Building Unit, enter same distance for both.
- Building Unit, High Occupancy Building Unit, and Designated Outside Activity Area
- as defined in 100-Series Rules.
- -For measurement purposes only, Production Facilities should only include those items with an asterisk(\*) on the Facilities Tab.

### DESIGNATED SETBACK LOCATION INFORMATION

Check all that apply. This location is within a:

- **I** 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: 03/22/2018

### FOR MULTI-WELL PADS AND PRODUCTION FACILTIES WITHIN DESIGNATED SETBACK LOCATIONS ONLY:

- Check this box if this Oil and Gas Location has or will have Production Facilities that serve multiple wells (onll 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.

Several building units in this area heavily dictated where we placed the proposed production facility. Moving the location north or east would have put us closer to the building units, and within an Exception Zone. Box Elder Creek is located south of these facilities, and the proximity to this creek prevented us from moving the location that direction. In an effort to maintain as much farmable land as possible for the Surface Owner, and not interfere with the existing AG operations, this location could not be moved further west.

## 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: 19- Colombo clay loam, 0-1% slopes

NRCS Map Unit Name: 41- Nunn clay loam, 0-1% slopes

Date Run: 11/29/2018 Doc [#401721862]

NRCS Map Unit Name:
PLANT COMMUNITY:
Complete this section only if any portion of the disturbed area of the location's current land use is on non-crop land.
Are noxious weeds present: Yes ☐ No ☐
Plant species from: NRCS or, field observation Date of observation:
List individual species:
Check all plant communities that exist in the disturbed area.  Disturbed Grassland (Cactus, Yucca, Cheatgrass, Rye)  Native Grassland (Bluestem, Grama, Wheatgrass, Buffalograss, Fescue, Oatgrass, Brome)  Shrub Land (Mahogany, Oak, Sage, Serviceberry, Chokecherry)  Plains Riparian (Cottonwood, Willow, Aspen, Maple, Poplar, Russian Olive, Tamarisk)  Mountain Riparian (Cottonwood, Willow, Blue Spruce)  Forest Land (Spruce, Fir, Ponderosa Pine, Lodgepole Pine, Juniper, Pinyon, Aspen)  Wetlands Aquatic (Bullrush, Sedge, Cattail, Arrowhead)  Alpine (above timberline)  Other (describe):
WATER RESOURCES
Is this a sensitive area: No 🗵 Yes
Distance to nearest
downgradient surface water feature: 1 Feet
water well: 590 Feet
Estimated depth to ground water at Oil and Gas Location7 Feet
Basis for depth to groundwater and sensitive area determination:
Sensitive area determination: ground water is less than 20'. Depth to ground water determination: Land Owner experience.
Is the location in a riparian area: 区 No ☐ Yes
Was an Army Corps of Engineers Section 404 permit filed 区 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 No X Yes Floodplain Data Sources Reviewed (check all that apply) Floodplain?
⊠ Federal (FEMA)
▼ County
X  Local
Other
GROUNDWATER BASELINE SAMPLING AND MONITORING AND WATER WELL SAMPLING
Water well sampling required per Rule 318A
WILDLIFE

		n a Wildlife Mitigation Plan to a pre-consultation meeting with CPW held on
111131		is a pre-constitution meeting with or vv held on
DESIGNATE	ED SETBACK LOCAT	ON EXCEPTIONS
Check all tha	at apply:	
	04.b.(1)A. Exception Lo	one (within 500' of a Building Unit) and is in an Urban Mitigation Area ocation (existing or approved Oil & Gas Location now within a Designated Setback as a result of
	04.b.(1)B. Exception Location ap	ocation (existing or approved Oil & Gas Location is within a Designated Setback due to Building Unit proval)
Rule 60	04.b.(2) Exception Loca	ation (SUA or site-specific development plan executed on or before August 1, 2013)
	04.b.(3) Exception Loca oment plan)	ation (Building Units constructed after August 1, 2013 within setback per an SUA or site-specific
RULE 502.b	VARIANCE REQUES	т
Rule 50	02.b. Variance Reques	t from COGCC Rule or Spacing Order Number
	ions and variances req rtifications, SUAs).	uire attached Request Letter(s). Refer to applicable rule for additional required attachments (e.g.
OPERATOR	COMMENTS AND SU	JBMITTAL
Comments		nsite for 180 days and contain 53,000 bbls per tank. MLVT manufacturers currently used by PDC are c. (ISI) and PCI Manufacturing.
	Four temporary water	tanks will be onsite during the initial production phase of the well, estimated time 6-9 months.
		ne attached Hydrology Map that runs through the wellpad is a waste water ditch. This ditch will be to allow for waster water function, without being disrupted by wellheads.
I hereby c Signed:	ertify that the statem	ents made in this form are, to the best of my knowledge, true, correct and complete.  Date: 08/24/2018 Email: alexandria.ota@pdce.com
Print Nam	e: Ally Ota	Title: Regulatory Tech
	by approved	d herein, this Application for Permit-to-Drill complies with COGCC Rules and applicable orders  Director of COGCC Date: 11/29/2018
		Conditions Of Approval
constitu	ite representations	Conditions Of Approval  Itions and conditions of approval stated in this Form 2A for this location shall  It is stipulations and conditions of approval for any and all subsequent operations on the state of the sta
COA Type		<u>Description</u>
		Operator shall post a copy of the approved Form 2A on the location during all construction, drilling, and well completion activities.
		Within 30 days of start of production, operator shall survey the distance from the nearest production facility to the nearest Building Unit and this surveyed distance shall be reported to the COGCC via a Form 4 Sundry.
		Operator must implement site-specific best management practices in accordance with good engineering practices, including, but not limited to, construction of a berm or diversion dike, site grading, or other comparable measures, sufficient to protect Box Elder Creek located approximately 300 feet east and south of the oil and gas location from a release of drilling, completion, produced fluids, and chemical products.

<u>No</u>	BMP/COA Type	Descri <b>bles</b> t Management Practices
1	Planning	604c.(2).E. Multiwell Pads: This 2A application is for a 5-well pad. North: If Production Facility (PF) moved N would be closer to BU's East: If PF moved E would be closer to BU's South: Unable to move S due to close proximity of Box Elder Creek West: If PF moved W would interfere with AG operations and remove more farmable land
2	Planning	604c.(2).V. Development From Existing Well Pads: An existing pad was not available to utilize to develop these wells.
3	General Housekeeping	604c.(2).P. Removal of Surface Trash: A commercial size trash bin for removing debris will be located on site. This bin will be for use by all parties affiliated with the operation.
4	Storm Water/Erosion Control	This Stormwater Management Plan contains required elements associated with PDC's construction activities, as defined in the CDPS General Permit for Stormwater Discharges Associated with Construction Activity, Authorization to Discharge Under the Colorado Discharge Permit System (Permit No. COR-030000, re-issued and effective July 1, 2007).BMPs for sediment and erosion control will be accomplished through a combination of construction techniques, vegetation and re-vegetation, administrative controls, and structural features.
5	Material Handling and Spill Prevention	604c.(2).G. Berm Construction: Containment berms for Permanent and Temporary Equipment shall be constructed of dirt (earth) with a geosynthetic liner, designed and installed to prevent leakage and resist degradation from erosion or routine operation. In addition, flow through fencing will be placed upstream of facilities to block any anticipated flooding. All berms will be visually checked periodically to ensure proper working condition. Secondary containment devices shall be sufficiently impervious to contain any spilled or released material.
6	Material Handling and Spill Prevention	604c.(2).F. Leak Detection Plan: See attached.
7	Material Handling and Spill Prevention	To prevent adverse impacts to shallow groundwater, buried produced water vault shall be installed above an impermeable synthetic or geosynthetic liner system which shall be tied back into the surface liner.
8	Dust control	604.c.(2).W. Site Specific Measures: Lights should be turned downward and away from building units within the 1,000 foot buffer area. Dust mitigation will be provided as necessary on lease access roads.
9	Construction	604c.(2).S.The lease access road will be properly constructed and maintained to accommodate for local emergency vehicle access. Dust will be mitigated as necessary on lease access road. PDC will employ practices for control of fugitive dust caused by operations, these include but are not limited to the use of speed restrictions and regular road maintenance.
10	Construction	804. Visual Impact: Production facilities, regardless of construction date, which are observable from any public highway will be painted with uniform, non-contrasting, non-reflective color tones (similar to the Munsell Soil Color Coding System), and with colors matched to but slightly darker than the surrounding landscape.
11	Construction	604c.(2).D. Access Roads: PDC will utilize an improved lease access road off of WCR 61(paved) for all heavy truck traffic and rig moves along with drilling operations and maintenance equipment. PDC has begun the WOGLA process and will obtain any necessary Access, Right-of-Way, or Traffic Control Permits as deemed necessary by Local Control Government.
12	Construction	604c.(2).M. Fencing Requirements: The completed wellsites will be surrounded with a fence and gate. PDC personnel will monitor the wellsites regularly upon completion of the wells. Authorized representatives and/or PDC personnel shall be on-site during drilling and completion operations.

13 Construction	604c.(2).N. Control of Fire Hazards: PDC will ensure that any material that might be deemed a fire hazard will remain no less than twenty-five (25) feet from the wellhead (s), tanks and separator(s). PDC installs automation equipment for tank level and pressure monitoring inside the bermed area that complies with API RP 500 classifications and with the current national electrical code as adopted by the State of Colorado. In compliance with Rule 606A.d., Flammable liquids shall not be stored within fifty (50) feet of the wellbore, except for the fuel in the tanks of operating equipment or liquids used for injection. Where terrain and location configuration do not permit maintaining this distance, equivalent safety measures should be taken.
14 Construction	604c.(2).O. Loadlines: All loadlines shall be bullplugged or capped.
15 Construction	604c.(2).R. Tank Specifications: Oil and Condensate storage tanks will be designed, constructed and maintained in accordance with National Fire Protection Association (NFPA) Code 30 (2008 version). PDC will maintain written records to verify proper design, construction and maintenance. All records will be available for inspection by the Director.
16 Construction	PDC has opted to use partially buried fiberglass water vaults due to the need for the inlet to the vault being below frost line to keep from creating freezing issues during the cold weather months and prevent environmental releases. As an additional precaution the water vaults are set at 3 to 4 feet below grade keeping 3 to 4 feet of vault above grade with a geo-synthetic liner installed under the vault. The fiberglass vaults that we use are double walled and inspected as part of our integrity testing program. We install our load line at 12 to 18 inches above the bottom of the vault to keep water in the vault at all times as a precaution to keep the vault from floating.

17	Construction	PDC Energy, Inc. (PDC) has developed Best Management Practices (BMPS) to prevent injuries, property damage or environmental impacts and a Contingency Plan for any Modular Large Volume Tank (MLVT) leak or catastrophic failure of the tank integrity and resulting loss of fluid. These BMPs include, but not limited, by the following:  1) PDC determines MLVT locations based on size of location, nearby surface waters, site visibility, surrounding land use, property lines, onsite traffic, site security, tearaway tank fill connections, topography (high, low, slope, direction), nearby building
		units, roads, access points, and surface owner requests.  2) Signs shall be posted on each MLVT to indicate that the contents are fresh water and that no E&P waste fluids are allowed. Location and additional signage shall
		conform to Rule 210. 3) MLVTs will be operated with a minimum of 1 foot freeboard at all times. 4) Access to the tanks shall be limited to operational personnel.
		5) Construction and installation of the tank structure, liner and sub-grade shall meet or exceed the manufacturer specifications. PDC follows manufacturer's Standard Operating Procedures (SOPs) and will provide these SOPs upon request to the COGCC.
		6) PDC will conduct daily, visual inspections of the exterior wall and general area for any integrity deficiencies before, during, and after filling the MLVTs. PDC uses Construction Sign-Off, Site Preparation Sign-Off, Completion Sign-Off, Pre-Fill, and Site Visit checklists to maintain a written record of inspections. However, when the fluid level in the MLVTs is less than two (2) feet and there is no activity going on (i.e.
		during holidays or a small break between completions), only intermittent inspections will be conducted. Two feet is the safe volume of fluid level that is needed to hold the liner down and keep the MLVT stable.
		7) Each location where MLVT's are used will have its own set of unique site-specific characteristics and associated risks (e.g., rural vs. urban setting, grade of the location, etc.) to be considered in a worst case scenario. These characteristics must be identified and addressed prior to the MLVT construction phase and should be
		documented in the MLVT construction checklist. Ensuring the safety of our employees, contractors, and the public are a top priority. This can be addressed with the implementation of MLVT pre-construction risk assessment measures to address safety concerns, and minimize environmental impacts and property damage in the unlikely event of a MLVT release.
		8) In the event of a catastrophic MLVT failure, the Operator shall notify the COGCC as soon as practicable but not more than 24 hours after discovery, submit a Form 22-Accident Report within 10 days after discovery, conduct a "root cause analysis", and provide same to COGCC on a Form 4-Sundry Notice within 30 days of the failure.  9) The MLVT shall be constructed and operated in accordance with a design package certified and sealed by a Licensed Professional Engineer either in Colorado or the
		state where the MLVT was designed or manufactured.  10) COGCC Rules 605.a.(3,5,6,7, and 8), as applicable to tank setbacks at the time of installation shall apply to the siting of this MLVT.  11) All MLVT liner seams shall be welded and tested in accordance with applicable
		ASTM international standards. Any repairs to liners shall be made using acceptable practices and applicable standards.  12) PDC Energy Inc. hereby certifies to the Director that the Modular Large Volume Tanks, utilized for the afore mentioned location, will be designed and implemented
		consistent with the Colorado Oil and Gas Conservation Commission policy dated June 13, 2014.
		MLVT Certification PDC Energy Inc. hereby certifies to the Director that the Modular Large Volume Tanks, utilized for the afore mentioned location, will be designed and implemented consistent with the Colorado Oil and Gas Conservation Commission policy dated June 13, 2014.
18	Construction	All new wells will be equipped with remote shut in capabilities accessible from outside the floodplain in which the wellheads are located. PDC will anchor all equipment at drilling and production sites in geological hazard and floodplain areas to the extent necessary to resist flotation, collapse, lateral movement, or subsidence.

	Noise mitigation	drilling rigs that are being contracted and has also conducted a baseline noise survey for hydraulic fracture stimulation operations on a representative horizontal well. These baseline surveys are utilized for site specific noise modeling to determine if any mitigation measures are warranted. A review was conducted to identify potential receptors within 1000 feet of the proposed pad site. There are five (5) building units of concern located 505' NE, 639' E, 791' NE, 832' SE, 878' SE. Light and sound mitigation will be installed to the north, east, and south of the proposed location. Methods of noise mitigation shall include but not be limited to hay bales, sound walls, or customized semi-trailers. PRODUCTION FACILITIES: It is not anticipated that noise mitigation will be necessary at the proposed tank battery location. After construction is completed, equipment installed and production begins, noise levels will be assessed to determine if mitigation measures will be required to be compliant with Rule 802.
20	Odor mitigation	805.b(1)-(c) Odors and Dust: Oil and gas facilities and equipment (PERMANENT AND TEMPORARY) will operate in a manner that odors and dust do not constitute a nuisance or hazard to public welfare. Odors: Oil and gas operations will be in compliance with the Department of Public Health and Environment, Air Quality Control Commission, Regulation No. 2 Odor Emission, 5 C.C.R. 1001-4, Regulation No. 3 (5 C.C.R. 1001-5), and Regulation No. 7 Section XVII.B.1 (a-c) and Section XII. Temporary and permanent water tanks do not require additional BMPs as PDC has historically not had any odor issues.  Dust; PDC will employ practices for control of fugitive dust caused by operations, these include but are not limited to the use of speed restrictions, regular road maintenance, restriction of construction activity during high-wind days, and silica dust controls when handling sand used in hydraulic fracturing operations. When necessary, PDC coordinates dust mitigation with the county on gravel roads, places road base where allowed by surface owner around tanks and wellheads to minimize dust, and will water the roads and locations when dry. In addition, automation is used on all new wells to minimize truck traffic. During winter operations normal dust abatement is not provided unless requested by surrounding land owners. Fugitive dust control will be incorporated as needed during all other months of drilling and completion operations.
21	Drilling/Completion Operations	604c.(2).C. Green Completions: Flowlines, 48" HLPs, sand traps all capable of supporting green completions as described in rule 805 shall be installed at any Oil and Gas location at which commercial quantities of gas and or oil are reasonably expected to be produced based on existing wells. All green completions flow back equipment will be able to handle more than 1.5 times the amount of any known volumes in the surrounding field. First sign of salable gas will be put into production equipment and turned down line.
22	Drilling/Completion Operations	604c.(2).K. Pit Level Indicators: PDC uses an Electronic Drilling Recorder (EDR) with pit level monitor(s) and alarm(s) for production rigs. Basic level gages are used on steel pits utilized for the surface rig.
23	Drilling/Completion Operations	604c.(2).Q. Guy Line Anchors: Rig guy wires are anchored to the rig's base beam that the rig stands on, temporary and permanent anchors will not be set on this location.
24	Final Reclamation	604c.(2).T. Well Site Cleared: The wellsite will be cleared of all non-essential equipment within ninety (90) days after all wells associated with the pad have been plugged and abandoned.
25	Final Reclamation	604c.(2).U. Identification of Plugged and Abandoned Wells: Pursuant to rule 319.a. (5)., once the well has been plugged and abandoned, PDC will identify the location of the wellbore with a permanent monument that will detail the well name and date of plugging.

Total: 25 comment(s)

Attachment Check List		
Att Doc Num	<u>Name</u>	
2478856	RULE 306.E. CERTIFICATION	
2478857	CORRESPONDENCE	
401721862	FORM 2A SUBMITTED	
401744099	SURFACE AGRMT/SURETY	
401744102	NRCS MAP UNIT DESC	
401744104	ACCESS ROAD MAP	
401744107	HYDROLOGY MAP	
401744111	LOCATION PICTURES	
401744115	LOCATION DRAWING	
401744116	MULTI-WELL PLAN	
401744117	OTHER	
401744118	FACILITY LAYOUT DRAWING	
401744119	WASTE MANAGEMENT PLAN	
401744120	LEAK DETECTION PLAN	
401744122	PRE-APPLICATION NOTIFICATION CERTIFICATION	

Total Attach: 15 Files

General Comments		
User Group	Comment	Comment Date
Permit	Final permitting review Complete. Send to Final Approval.	11/28/2018
Permit	State Land Board comment: No objection was received from the State Land Board (SLB).	11/28/2018
Permit	Initial permitting review complete and task passed.	11/26/2018
OGLA	OGLA task passed.	10/22/2018
OGLA	Operator provided additional BMPs to address the location being within a floodplain, concurred with including COAs requiring additional protection of nearby Box Elder Creek from impacts and a post-construction survey to confirm the distance from the nearest production facility to the nearest Building Unit, & provided the Rule 306.e. certification letter.  OGLA review completed. Waiting on Siting Rationale review by OGLA Supervsior.	10/09/2018
OGLA	Requested operator provide additional BMPs to address the location being within a	09/27/2018
OGLA	floodplain, concurrence to include COAs requiring additional protection of nearby Box Elder Creek from impacts and a post-construction survey to confirm the distance from the nearest production facility to the nearest Building Unit, & the Rule 306.e. certification letter. Due by 10/27/18.	09/27/2016
LGD	This proposed oil and gas location is situated in the Agricultural Zone District of unincorporated Weld County. A Weld Oil and Gas Location Assessment (WOGLA) is required prior to constructing any improvements related to oil and gas exploration and production.	09/19/2018
	The operator has noticed their intent to apply for a WOGLA.	
	A building permit is required for the production facilities (tank battery, separators, pump jacks, compressors, generators, etc.) from the Department of Planning Services. Access points from County roads require an Access Permit from the Department of Public Works, which includes any necessary traffic control plans and Improvement Agreements. The use of County right-of-way requires a permit from the Department of Public Works.	
	Jason Maxey, Weld Oil/Gas Specialist and LGD 970-400-3579	
Permit	Passed Completeness	09/06/2018
OGLA	Passed Buffer Zone completeness review	09/05/2018

Total: 9 comment(s)