

FORM INSP
Rev 05/11

State of Colorado
Oil and Gas Conservation Commission

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



Inspection Date:
01/12/2016
Document Number:
680701229
Overall Inspection:
SATISFACTORY

FIELD INSPECTION FORM

Location Identifier	Facility ID	Loc ID	Inspector Name:	On-Site Inspection	2A Doc Num:
	<u>439743</u>	<u>439778</u>	<u>Peterson, Tom</u>	<input type="checkbox"/>	

Operator Information:

OGCC Operator Number:	<u>69175</u>
Name of Operator:	<u>PDC ENERGY INC</u>
Address:	<u>1775 SHERMAN STREET - STE 3000</u>
City:	<u>DENVER</u> State: <u>CO</u> Zip: <u>80203</u>

- THIS IS A FOLLOW UP INSPECTION
- FOLLOW UP INSPECTION REQUIRED
- NO FOLLOW UP INSPECTION REQUIRED
- INSPECTOR REQUESTS FORM 42 WHEN CORRECTIVE ACTIONS ARE COMPLETED

Contact Information:

Contact Name	Phone	Email	Comment
		<u>cogccinspection@pdce.com</u>	<u>All inspections</u>

Compliance Summary:

QtrQtr: NWNW Sec: 28 Twp: 4N Range: 66W

Inspector Comment:

Battery facilities are under construction.

Related Facilities:

Facility ID	Type	Status	Status Date	Well Class	API Num	Facility Name	Insp Status	
439743	WELL	DG	10/11/2015	LO	123-40541	Wiedeman 28G-314	WO	<input checked="" type="checkbox"/>
439744	WELL	DG	11/16/2015	LO	123-40542	Wiedeman Federal 28G-212	WO	<input checked="" type="checkbox"/>
439750	WELL	DG	09/04/2015	LO	123-40543	Wiedeman 28F-314	WO	<input checked="" type="checkbox"/>
439751	WELL	DG	09/25/2015	LO	123-40544	Wiedeman 28E-202	WO	<input checked="" type="checkbox"/>
439752	WELL	DG	10/04/2015	LO	123-40545	Wiedeman 28F-312	WO	<input checked="" type="checkbox"/>
439754	WELL	DG	10/22/2015	LO	123-40546	Wiedeman 28G-214	WO	<input checked="" type="checkbox"/>
439758	WELL	DG	09/24/2015	LO	123-40549	Wiedeman 28F-304	WO	<input checked="" type="checkbox"/>
439766	WELL	DG	08/23/2015	LO	123-40551	Wiedeman 28E-234	WO	<input checked="" type="checkbox"/>
439767	WELL	DG	11/09/2015	LO	123-40552	Wiedeman 28G-312	WO	<input checked="" type="checkbox"/>
439772	WELL	XX	11/07/2014	LO	123-40553	Wiedeman 28F-234	WO	<input checked="" type="checkbox"/>
439774	WELL	DG	10/25/2015	LO	123-40554	Wiedeman 28F-202	WO	<input checked="" type="checkbox"/>
439780	WELL	DG	10/08/2015	LO	123-40556	Wiedeman 28F-412	WO	<input checked="" type="checkbox"/>

Inspector Name: Peterson, Tom

439783	WELL	DG	11/01/2015	LO	123-40558	Wiedeman 28F-432	WO	<input checked="" type="checkbox"/>
439785	WELL	DG	10/02/2015	LO	123-40559	Wiedeman 28E-432	WO	<input checked="" type="checkbox"/>
439791	WELL	DG	08/06/2015	LO	123-40561	Wiedeman 28E-404	WO	<input checked="" type="checkbox"/>

Equipment: Location Inventory

Special Purpose Pits: _____	Drilling Pits: _____	Wells: <u>16</u>	Production Pits: _____
Condensate Tanks: _____	Water Tanks: <u>16</u>	Separators: <u>16</u>	Electric Motors: _____
Gas or Diesel Mortors: _____	Cavity Pumps: _____	LACT Unit: _____	Pump Jacks: _____
Electric Generators: _____	Gas Pipeline: _____	Oil Pipeline: _____	Water Pipeline: _____
Gas Compressors: _____	VOC Combustor: <u>8</u>	Oil Tanks: <u>48</u>	Dehydrator Units: _____
Multi-Well Pits: _____	Pigging Station: _____	Flare: _____	Fuel Tanks: _____

Location

Lease Road:

Type	Satisfactory/Action Required	comment	Corrective Action	Date

Signs/Marker:

Type	Satisfactory/Action Required	Comment	Corrective Action	CA Date

Emergency Contact Number (S/AR): _____

Corrective Date: _____

Comment: _____

Corrective Action: _____

Good Housekeeping:

Type	Satisfactory/Action Required	Comment	Corrective Action	CA Date

Spills:

Type	Area	Volume	Corrective action	CA Date

Multiple Spills and Releases?

Fencing/:

Type	Satisfactory/Action Required	Comment	Corrective Action	CA Date

Equipment:

Type:	#	Satisfactory/Action Required:	
Comment			
Corrective Action		Date:	

Venting:

Yes/No	
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Comment	
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Flaring:

Type	Satisfactory/Action Required
Comment:	
Corrective Action:	Correct Action Date:

Predrill

Location ID: 439743

Site Preparation:

Lease Road Adeq.: _____ Pads: _____ Soil Stockpile: _____

S/AR: _____

Corrective Action: _____ Date: _____ CDP Num.: _____

Form 2A COAs:

Group	User	Comment	Date
OGLA	youngr	Operator shall provide notice to COGCC 48 hours prior to commencing construction of this Oil and Gas Location via Form 42.	09/25/2014

S/AR: _____ **Comment:** _____

CA: _____ **Date:** _____

Wildlife BMPs:

BMP Type	Comment
Planning	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.
Construction	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.
Storm Water/Erosion Control	Stormwater Management Plan contains required elements associated with PDC's construction activities for Areas 1, 2, 3, and 5, 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.
Noise mitigation	604c.(2).A. Noise: WELL PAD: PDC has conducted baseline noise surveys for all 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 is one building unit of concern located southwest 595 feet of the proposed pad. Based on the results, projected noise levels may exceed the Light Industrial Zone standard of 65 decibels (db) at the receptor location southwest of the pad. Therefore, mitigation will be installed southwest of the pad. Methods of noise mitigation shall include but not be limited to hay bales, noise 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.
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.

Material Handling and Spill Prevention	604c.(2).F. Leak Detection Plan: See attached.
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.
Planning	604c.(2).V. Development From Existing Well Pads: An existing pad was not available to utilize to develop these wells.
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.
Construction	604c.(2).R. Tank Specifications: 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.
Planning	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.
Traffic control	604c.(2).D. Traffic Plan: If required by the local government, a traffic plan will be coordinated with the local jurisdiction prior to commencement of operations.
Emissions mitigation	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 reasonable expected to be produced based on existing wells. All green flow back equipment will be able to handle more than 1.5 times the amount of any know volumes in the surrounding field. First sign of salable gas will be put into production equipment and turned down line.
Material Handling and Spill Prevention	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.
Construction	604c.(2).G. Berm Construction: A geosynthetic liner will be laid under the tanks on this location and a metal containment will be constructed.
Planning	604c.(2).L. Drill Stem Tests: PDC does not conduct drill stem tests, but will seek prior approval from the director if a drill stem test will be preformed.
General Housekeeping	604c.(2).N. Control of Fire Hazards: PDC will ensure that any material that might be deemed a fire hazard will be 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.

Dust control	805.b(1)-(c) Odors and Dust: Oil and gas facilities and equipment 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. Dust; PDC will employ practices for control of fugitive dust caused by operations include but 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.
Planning	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 and CR 29.
Planning	604c.(2).I. BOPE Testing for Drilling Operations: PDC's contractors will supply a double ram BOPE (Blinds and pipes). BOPE is always function tested and all seals and ram block rubbers are inspected. After installation of the BOPE, PDCE conducts a pressure test on the BOPE at a low pressure of (200-400 psi) and a high pressure test with a third party tester, all tests are digitally recorded and any failed equipment or seals are replaced and re-tested.
Construction	"604c.(2).S. Access Roads: Drilling and Completion access will likely all be from the West and CR 29 which is gravel. We will also likely have temp access to/from MLVT area from North and CR 42 which is paved. 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.
Planning	604c.(2).E. Multiwell Pads: This 2A application is for a 16-well pad. No suitable existing locations are in the area. PDC has worked with the landowners to select the proposed site. This location was chosen as we were not able to obtain permission to drill on our initial location in W/2NE-29 (this location would have been closer to BU's however). No location was available in E/2NE-28 (if we drilled E-W) as this land is under Town of Gilcrest (developed areas).
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.
General Housekeeping	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.
Drilling/Completion Operations	604c.(2).O. Loadlines: All loadlines shall be bullplugged or capped.
Planning	604c.(2).J. BOPE for Well Servicing Operations: All valves will also be tested to maximum rating by a third party prior to being delivered to location. Whenever snubbing operations are being used the snubbing stack will be pressure tested at the same time the BOPE is being tested which consist of a single pipe ram and a annular bag.

S/AR: _____ **Comment:**

CA: **Date:** _____

Comment:

Staking:

On Site Inspection (305):

Surface Owner Contact Information:

Name: _____ Address: _____

Phone Number: _____ Cell Phone: _____

Inspector Name: Peterson, Tom

Operator Rep. Contact Information:

Landman Name: _____ Phone Number: _____
Date Onsite Request Received: _____ Date of Rule 306 Consultation: _____
Request LGD Attendance: _____

LGD Contact Information:

Name: _____ Phone Number: _____ Agreed to Attend: _____

Summary of Landowner Issues:

Summary of Operator Response to Landowner Issues:

Onsite Inspection Memorandum Summarizing Discussions at Inspection as Attachment:

Facility

Facility ID: <u>439743</u>	Type: <u>WELL</u>	API Number: <u>123-40541</u>	Status: <u>DG</u>	Insp. Status: <u>WO</u>
Facility ID: <u>439744</u>	Type: <u>WELL</u>	API Number: <u>123-40542</u>	Status: <u>DG</u>	Insp. Status: <u>WO</u>
Facility ID: <u>439750</u>	Type: <u>WELL</u>	API Number: <u>123-40543</u>	Status: <u>DG</u>	Insp. Status: <u>WO</u>
Facility ID: <u>439751</u>	Type: <u>WELL</u>	API Number: <u>123-40544</u>	Status: <u>DG</u>	Insp. Status: <u>WO</u>
Facility ID: <u>439752</u>	Type: <u>WELL</u>	API Number: <u>123-40545</u>	Status: <u>DG</u>	Insp. Status: <u>WO</u>
Facility ID: <u>439754</u>	Type: <u>WELL</u>	API Number: <u>123-40546</u>	Status: <u>DG</u>	Insp. Status: <u>WO</u>
Facility ID: <u>439758</u>	Type: <u>WELL</u>	API Number: <u>123-40549</u>	Status: <u>DG</u>	Insp. Status: <u>WO</u>
Facility ID: <u>439766</u>	Type: <u>WELL</u>	API Number: <u>123-40551</u>	Status: <u>DG</u>	Insp. Status: <u>WO</u>
Facility ID: <u>439767</u>	Type: <u>WELL</u>	API Number: <u>123-40552</u>	Status: <u>DG</u>	Insp. Status: <u>WO</u>
Facility ID: <u>439772</u>	Type: <u>WELL</u>	API Number: <u>123-40553</u>	Status: <u>XX</u>	Insp. Status: <u>WO</u>
Facility ID: <u>439774</u>	Type: <u>WELL</u>	API Number: <u>123-40554</u>	Status: <u>DG</u>	Insp. Status: <u>WO</u>
Facility ID: <u>439780</u>	Type: <u>WELL</u>	API Number: <u>123-40556</u>	Status: <u>DG</u>	Insp. Status: <u>WO</u>
Facility ID: <u>439783</u>	Type: <u>WELL</u>	API Number: <u>123-40558</u>	Status: <u>DG</u>	Insp. Status: <u>WO</u>
Facility ID: <u>439785</u>	Type: <u>WELL</u>	API Number: <u>123-40559</u>	Status: <u>DG</u>	Insp. Status: <u>WO</u>
Facility ID: <u>439791</u>	Type: <u>WELL</u>	API Number: <u>123-40561</u>	Status: <u>DG</u>	Insp. Status: <u>WO</u>

Environmental

Spills/Releases:

Type of Spill: _____ Description: _____ Estimated Spill Volume: _____

Comment: _____

Corrective Action: _____ Date: _____

Reportable: _____ GPS: Lat _____ Long _____

Proximity to Surface Water: _____ Depth to Ground Water: _____

Water Well:

Lat _____ Long _____

DWR Receipt Num: _____ Owner Name: _____ GPS : _____

Field Parameters:

Sample Location: _____

Emission Control Burner (ECB): _____

Comment: _____

Pilot: _____ Wildlife Protection Devices (fired vessels): _____

Reclamation - Storm Water - Pit

Interim Reclamation:

Date Interim Reclamation Started: _____ Date Interim Reclamation Completed: _____

Land Use: IRRIGATED

Comment: _____

1003a. Waste and Debris removed? _____

CM _____

CA _____ CA Date _____

Unused or unneeded equipment onsite? _____

CM _____

CA _____ CA Date _____

Pit, cellars, rat holes and other bores closed? _____

CM _____

CA _____ CA Date _____

Guy line anchors marked? _____

CM _____

CA _____ CA Date _____

1003b. Area no longer in use? _____ Production areas stabilized ? _____

1003c. Compacted areas have been cross ripped? _____

1003d. Drilling pit closed? _____ Subsidence over on drill pit? _____

Cuttings management: _____

1003e. Areas no longer needed for drilling or subsequent operations for have been re-vegetated to 80% of pre-existing? _____

Production areas have been stabilized? _____ Segregated soils have been replaced? _____

RESTORATION AND REVEGETATION

Inspector Name: Peterson, Tom

Cropland

Top soil replaced _____ Recontoured _____ Perennial forage re-established _____

Non-Cropland

Top soil replaced _____ Recontoured _____ 80% Revegetation _____

1003 f. Weeds Noxious weeds? _____

Comment: _____

Overall Interim Reclamation

Final Reclamation/ Abandoned Location:

Date Final Reclamation Started: _____ Date Final Reclamation Completed: _____

Final Land Use: IRRIGATED _____

Reminder: _____

Comment: _____

Well plugged _____ Pit mouse/rat holes, cellars backfilled _____

Debris removed _____ No disturbance /Location never built _____

Access Roads Regraded _____ Contoured _____ Culverts removed _____

Gravel removed _____

Location and associated production facilities reclaimed _____ Locations, facilities, roads, recontoured _____

Compaction alleviation _____ Dust and erosion control _____

Non cropland: Revegetated 80% _____ Cropland: perennial forage _____

Weeds present _____ Subsidence _____

Comment: _____

Corrective Action: _____ Date _____

Overall Final Reclamation _____ Well Release on Active Location Multi-Well Location

Storm Water:

Loc Erosion BMPs	BMP Maintenance	Lease Road Erosion BMPs	Lease BMP Maintenance	Chemical BMPs	Chemical BMP Maintenance	Comment

S/A/V: _____ Corrective Date: _____

Comment: _____

CA: _____

Pits: NO SURFACE INDICATION OF PIT