

**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

DE	ET	OE	ES
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Inspection Date:
02/13/2015Document Number:
673801795Overall Inspection:
SATISFACTORY**FIELD INSPECTION FORM**

Location Identifier	Facility ID	Loc ID	Inspector Name:	On-Site Inspection	2A Doc Num:
	435726	435726	Gomez, Jason	<input type="checkbox"/>	

Operator Information:OGCC Operator Number: 69175Name of Operator: PDC ENERGY INCAddress: 1775 SHERMAN STREET - STE 3000City: DENVER State: CO Zip: 80203

- ☐ 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
		cogccinspection@pdce.com	

Compliance Summary:QtrQtr: SENW Sec: 14 Twp: 7N Range: 66W**Inspector Comment:****Related Facilities:**

Facility ID	Type	Status	Status Date	Well Class	API Num	Facility Name	Insp Status	
435728	WELL	WO	02/09/2015	LO	123-38759	Thornton 14K-441	PR	<input checked="" type="checkbox"/>

Equipment:Location Inventory

Special Purpose Pits: _____	Drilling Pits: _____	Wells: <u>1</u>	Production Pits: _____
Condensate Tanks: _____	Water Tanks: _____	Separators: _____	Electric Motors: _____
Gas or Diesel Motors: _____	Cavity Pumps: _____	LACT Unit: _____	Pump Jacks: _____
Electric Generators: _____	Gas Pipeline: _____	Oil Pipeline: _____	Water Pipeline: _____
Gas Compressors: _____	VOC Combustor: _____	Oil Tanks: _____	Dehydrator Units: _____
Multi-Well Pits: _____	Pigging Station: _____	Flare: _____	Fuel Tanks: _____

Location

Signs/Marker:				
Type	Satisfactory/Action Required	Comment	Corrective Action	CA Date
WELLHEAD	ACTION REQUIRED	No sign at wellhead	Install sign to comply with rule 210.	03/31/2015
BATTERY	SATISFACTORY			
TANK LABELS/PLACARDS	ACTION REQUIRED	No NFPA on frac tank at wellhead or on red frac tank on location	Install sign to comply with rule 210.	03/31/2015

Inspector Name: Gomez, Jason

Emergency Contact Number (S/A/V): SATISFACTORY

Corrective Date:

Comment:

Corrective Action:

Good Housekeeping:

Type	Satisfactory/Action Required	Comment	Corrective Action	CA Date
UNUSED EQUIPMENT	ACTION REQUIRED	Unused red frac tank on location	Remove unused tanks	03/31/2015

Spills:

Type	Area	Volume	Corrective action	CA Date
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☐ Multiple Spills and Releases?**Fencing:**

Type	Satisfactory/Action Required	Comment	Corrective Action	CA Date
OTHER	SATISFACTORY	ECD Panel		
WELLHEAD	SATISFACTORY	Panel		

Equipment:

Type	#	Satisfactory/Action Required	Comment	Corrective Action	CA Date
Plunger Lift	1	SATISFACTORY			
Ancillary equipment	2	SATISFACTORY	Telemetry Equipment		
Bird Protectors	2	SATISFACTORY			
Emission Control Device	1	SATISFACTORY			
Ancillary equipment	1	SATISFACTORY	Methonal pump w/containment		
Gas Meter Run	1	SATISFACTORY			
Horizontal Heated Separator	1	SATISFACTORY			
Compressor	1	SATISFACTORY			

Facilities:☐ New Tank

Tank ID: _____

Contents	#	Capacity	Type	SE GPS
PRODUCED WATER	1	400 BBLS	HEATED STEEL AST	40.575360,-104.743490

S/A/V: SATISFACTORY

Comment:

Corrective Action:

Corrective Date:

Paint

Condition	Adequate
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Other (Content)

Other (Capacity)

Other (Type)

Berms

Type	Capacity	Permeability (Wall)	Permeability (Base)	Maintenance
Metal	Adequate	Walls Sufficient	Base Sufficient	Adequate

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Corrective Action					Corrective Date	
Comment						
Facilities: <input type="checkbox"/> New Tank Tank ID: _____						
Contents	#	Capacity	Type	SE GPS		
	1					
S/A/V:	SATISFACTORY		Comment: No NFPA No labeling on tank contents			
Corrective Action:					Corrective Date:	
<u>Paint</u>						
Condition	Adequate					
Other (Content) _____						
Other (Capacity) _____						
Other (Type) _____						
<u>Berms</u>						
Type	Capacity	Permeability (Wall)	Permeability (Base)	Maintenance		
Corrective Action	Install Berm to comply with COGCC Rules				Corrective Date	03/31/2015
Comment	No Berms see attached photos					
Facilities: <input type="checkbox"/> New Tank Tank ID: _____						
Contents	#	Capacity	Type	SE GPS		
PRODUCED WATER	1	100 BBLS	PBV PLASTIC	40.575360,-104.743490		
S/A/V:	SATISFACTORY		Comment:			
Corrective Action:					Corrective Date:	
<u>Paint</u>						
Condition	Adequate					
Other (Content) _____						
Other (Capacity) _____						
Other (Type) _____						
<u>Berms</u>						
Type	Capacity	Permeability (Wall)	Permeability (Base)	Maintenance		
Earth	Adequate	Walls Sufficient	Base Sufficient	Adequate		
Corrective Action					Corrective Date	
Comment						
Facilities: <input type="checkbox"/> New Tank Tank ID: _____						
Contents	#	Capacity	Type	SE GPS		
CRUDE OIL	3	400 BBLS	STEEL AST	40.575360,-104.743490		
S/A/V:	SATISFACTORY		Comment:			
Corrective Action:					Corrective Date:	
<u>Paint</u>						
Condition	Adequate					
Other (Content) _____						
Other (Capacity) _____						

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Other (Type) _____				
Berms				
Type	Capacity	Permeability (Wall)	Permeability (Base)	Maintenance
Metal	Adequate	Walls Sufficient	Base Sufficient	Adequate
Corrective Action				Corrective Date
Comment				

Venting:	
Yes/No	Comment
NO	

Flaring:				
Type	Satisfactory/Action Required	Comment	Corrective Action	CA Date

<u>Predrill</u>				
Location ID: 435726				
Site Preparation:				
Lease Road Adeq.: _____		Pads: _____	Soil Stockpile: _____	
S/AV: _____				
Corrective Action: _____		Date: _____	CDP Num.: _____	
Form 2A COAs:				
S/AV: _____		Comment: _____		
CA: _____			Date: _____	

Wildlife BMPs:	
BMP Type	Comment
Storm Water/Erosion Control	This 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.
Planning	604c.(2).I. BOPE Testing for Drilling Operations: PDC's contractors will supply a double ram-5000' PSI rated BOPE (Blinds and pipes) and always function test BOPE's prior to placement on the well head and inspect and replace all seals and ram block rubbers. 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 to the maximum amount of the BOPE rating with a third party tester, all tests are digitally recorded.
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.
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.

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.
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.
Planning	604c.(2).E. Multiwell Pads: This application is for a 1-well pad. No suitable existing locations are in the area.
Material Handling and Spill Prevention	604c.(2).F. Leak Detection Plan: Attached.
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.
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.
Noise mitigation	604c.(2).A. Noise: 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 Thornton 14K-441 pad site. The only building unit of concern is located south-southeast of the proposed pad at a distance of approximately 550 feet. As a result, noise modeling was conducted for the proposed pad located in the SENW Section 14 – T7N – R66W. Based on the results, projected noise levels would exceed the Light Industrial Zone standard of 65 decibels (db) at the receptor location. Therefore, mitigation will be necessary for the Thornton 14K-411 pad and will be installed prior to drilling and completion operations. Methods of noise mitigation that PDC will utilize include but are not limited to hay bales, noise walls, or customized semi-trailers.
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.
Planning	604c.(2).V. Development From Existing Well Pads: An existing pad was not available to utilize to develop these wells.
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.
Construction	604c.(2).M. Fencing Requirements: The completed wellsite will have sufficient fencing to prevent unauthorized access to wellsite equipment. 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.
Drilling/Completion Operations	604c.(2).O. Loadlines: All loadlines shall be bullplugged or capped.
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).S. Access Roads: PDC will utilize the lease access road from WCR 35 for drilling operations and maintenance equipment. The road will be properly constructed and maintained to accommodate for local emergency vehicle access. Dust abatement will be provided to road as necessary depending on weather and road conditions.

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S/AV: _____		Comment: _____	
CA: _____		Date: _____	
Stormwater:			
Comment: _____			
Staking:			
On Site Inspection (305):			
<u>Surface Owner Contact Information:</u>			
Name: _____		Address: _____	
Phone Number: _____		Cell Phone: _____	
<u>Operator Rep. Contact Information:</u>			
Landman Name: _____		Phone Number: _____	
Date Onsite Request Received: _____		Date of Rule 306 Consultation: _____	
Request LGD Attendance: _____			
<u>LGD Contact Information:</u>			
Name: _____		Phone Number: _____	
		Agreed to Attend: _____	
<u>Summary of Landowner Issues:</u>			

<u>Summary of Operator Response to Landowner Issues:</u>			

<u>Onsite Inspection Memorandum Summarizing Discussions at Inspection as Attachment:</u>			

Facility

Facility ID: 435728	Type: WELL	API Number: 123-38759	Status: WO	Insp. Status: PR
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Producing Well

Comment: PR

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): Y

Comment: _____

Pilot: ON

Wildlife Protection Devices (fired vessels): YES

Reclamation - Storm Water - Pit**Interim Reclamation:**

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

Land Use: IRRIGATED

Comment: _____

1003a. Debris removed? Pass CM _____
 CA _____ CA Date _____
 Waste Material Onsite? Pass CM _____
 CA _____ CA Date _____
 Unused or unneeded equipment onsite? In CM _____
 CA _____ CA Date _____
 Pit, cellars, rat holes and other bores closed? _____ CM _____
 CA _____ CA Date _____
 Guy line anchors removed? Pass CM _____
 CA _____ CA Date _____
 Guy line anchors marked? _____ CM _____
 CA _____ CA Date _____

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

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? In Segregated soils have been replaced? In**RESTORATION AND REVEGETATION**CroplandTop soil replaced In Recontoured In 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 _____

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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
Berms	Pass	Berms	Pass			
Gravel	Pass	Ditches	Pass			

S/A/V: SATISFACTOR
Y _____

Corrective Date: _____

Comment:

CA:

Pits: ☒ NO SURFACE INDICATION OF PIT

Attached Documents

You can go to COGCC Images (<https://cogcc.state.co.us/weblink/>) and search by document number:

Document Num	Description	URL
673801796	No NFPA or Berm	http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=3550788
673801797	Unused tank	http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=3550789