

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:
04/06/2016
Document Number:
673802998

FIELD INSPECTION FORM

Location Identifier	Facility ID	Loc ID	Inspector Name:	On-Site Inspection	2A Doc Num:
	<u>437887</u>	<u>437887</u>	<u>Gomez, Jason</u>	<input type="checkbox"/>	

Overall Inspection:
SATISFACTORY w/ CMT or AR

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
Leonard, Mike		mike.leonard@state.co.us	
		cogccinspection@pdce.com	

Compliance Summary:

QtrQtr:	<u>NENW</u>	Sec:	<u>28</u>	Twp:	<u>5N</u>	Range:	<u>64W</u>
Insp. Date	Doc Num	Insp. Type	Insp Status	Satisfactory /Action Required	PA P/F/I	Pas/Fail (P/F)	Violation (Y/N)
03/03/2016	682400483			AR	F		No

Inspector Comment:

Continue with corrective actions from inspection doc#682400483

Related Facilities:

Facility ID	Type	Status	Status Date	Well Class	API Num	Facility Name	Insp Status	
437882	WELL	PR	07/01/2015	OW	123-39747	Churchill 28M-443	PR	✗
437883	WELL	PR	06/01/2015	OW	123-39748	Churchill 28J-343	PR	✗
437884	WELL	PR	07/01/2015	OW	123-39749	Churchill 28J-423	PR	✗
437885	WELL	PR	07/01/2015	OW	123-39750	Churchill 28J-203	PR	✗
437886	WELL	PR	06/01/2015	OW	123-39751	Churchill 28E-203	PR	✗
437888	WELL	PR	06/01/2015	OW	123-39752	Churchill 28J-443	PR	✗
437889	WELL	PR	07/01/2015	OW	123-39753	Churchill 28M-343	PR	✗
438086	WELL	PR	06/01/2015	OW	123-39869	Churchill 28E-423	PR	✗

Equipment:

Location Inventory

Special Purpose Pits: _____	Drilling Pits: _____	Wells: <u>8</u>	Production Pits: _____
Condensate Tanks: _____	Water Tanks: _____	Separators: _____	Electric Motors: _____
Gas or Diesel Mortors: _____	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

Lease Road:

Type	Satisfactory/Action Required	comment	Corrective Action	Date

Signs/Marker:

Type	Satisfactory/Action Required	Comment	Corrective Action	CA Date
WELLHEAD	SATISFACTORY			
WELLHEAD	SATISFACTORY			
WELLHEAD	SATISFACTORY			
WELLHEAD	SATISFACTORY			
WELLHEAD	SATISFACTORY			
WELLHEAD	SATISFACTORY			
WELLHEAD	SATISFACTORY			
WELLHEAD	SATISFACTORY			

Emergency Contact Number (S/AR): SATISFACTORY 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
WELLHEAD	SATISFACTORY	Panel		
WELLHEAD	SATISFACTORY	Panel		
WELLHEAD	SATISFACTORY	Panel		
WELLHEAD	SATISFACTORY	Panel		
WELLHEAD	SATISFACTORY	Panel		
WELLHEAD	SATISFACTORY	Panel		

Inspector Name: Gomez, Jason

WELLHEAD	SATISFACTORY	Panel		
WELLHEAD	SATISFACTORY	Panel		

Equipment:

Type: Plunger Lift # 8 Satisfactory/Action Required: SATISFACTORY

Comment: _____

Corrective Action: _____ Date: _____

Facilities: New Tank Tank ID: _____

Contents	#	Capacity	Type	SE GPS
			CENTRALIZED BATTERY	,

S/AR: _____ Comment: _____

Corrective Action: _____ Corrective Date: _____

Paint

Condition: _____

Other (Content) _____

Other (Capacity) _____

Other (Type) _____

Berms

Type	Capacity	Permeability (Wall)	Permeability (Base)	Maintenance

Corrective Action: _____ Corrective Date: _____

Comment: _____

Venting:

Yes/No: NO

Comment: _____

Flaring:

Type	Satisfactory/Action Required

Comment: _____

Corrective Action: _____ Correct Action Date: _____

Predrill

Location ID: 437887

Site Preparation:

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

S/AR: _____

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

Form 2A COAs:

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

CA: _____ **Date:** _____

Wildlife BMPs:

BMP Type	Comment
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.
Planning	604.c.(2).W. Site Specific Measures: Vehicle tracking pads will be utilized at pad site to control mud and sediment from leaving pad construction site. 24 hour supervision will be provided for drilling and completion operations. Traffic will be directed as to minimize any congestion on county roads. Water will be used for dust abatement on dirt access road. Lighting will be provided during drilling and completion operations to ensure worker safety and compliance with all regulations. To the extent practicable, site lighting shall be directed downward and inward and shielded so as to avoid glare on public roads and building units within one thousand (1000) feet. Sound wall along north and west perimeter will also provide light mitigation.
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.
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 Churchill 28J-HZ pad site. There are 4 building units of concern are located north of the proposed pad at a distance of approximately 720, 725, 740 and 880 feet and 2 building units of concern located west of proposed pad at a distance of approximately 630 and 787 feet. As a result, noise modeling was conducted for the proposed pad located in the SENW Section 28 – T 5N – R 64W. Based on the results, projected noise levels would not exceed the Light Industrial Zone standard of 65 decibels (db) at the receptor locations during drilling operations. Results do indicate that noise levels would exceed 65 decibels 350 feet to the north-west during completion operations. Therefore, mitigation will be necessary for the Churchill 28J-HZ pad and will be installed prior to drilling and completion operations. Methods of noise mitigation shall include full blanket soundwalls on the north and west sides of the pad site at a height adequate to reduce noise.
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).S. Access Roads: PDC will utilize the lease access road from WCR 53 for drilling operations and maintenance equipment. The road will be properly constructed and maintained to accommodate for local emergency vehicle access. PDC will be working with Weld County on traffic planning.
Material Handling and Spill Prevention	604c.(2).F. Leak Detection Plan: See attached.
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).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).E. Multiwell Pads: This 2A application is for a 8-well pad. Entire area was reviewed at length for alternate locations. No other locations were suitable that would provide a greater distance between production facilities and building units. S2NW of Section 33 was reviewed and it was determined that 5 building units would be potentially within the 1000 ft. buffer area and extensive crop damage would occur. Section 33 has a large center pivot and approximately 40 acres would become unusable. No other suitable existing locations are in the area.
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.
Drilling/Completion Operations	604c.(2).O. Loadlines: All loadlines shall be bullplugged or capped.
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).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.
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.
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.

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

CA: _____ **Date:** _____

Comment: _____

Staking:

On Site Inspection (305):

Surface Owner Contact Information:

Name: _____ Address: _____

Phone Number: _____ Cell Phone: _____

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: 437882 Type: WELL API Number: 123-39747 Status: PR Insp. Status: PR

Producing Well

Comment: PR

BradenHead

Comment: Pressure Monitored

CA:

CA Date:

Facility ID: 437883 Type: WELL API Number: 123-39748 Status: PR Insp. Status: PR

Producing Well

Comment: PR

BradenHead

Comment: Pressure Monitored

CA:

CA Date:

Facility ID: 437884 Type: WELL API Number: 123-39749 Status: PR Insp. Status: PR

Producing Well

Comment: PR

BradenHead

Comment: Pressure Monitored

CA:

CA Date:

Facility ID: 437885 Type: WELL API Number: 123-39750 Status: PR Insp. Status: PR

Producing Well

Comment: PR

BradenHead

Comment: Pressure Monitored

CA:

CA Date:

Facility ID: 437886 Type: WELL API Number: 123-39751 Status: PR Insp. Status: PR

Producing Well

Comment: PR

BradenHead

Comment: Pressure Monitored
CA:
CA Date:

Facility ID: 437888 Type: WELL API Number: 123-39752 Status: PR Insp. Status: PR

Producing Well

Comment: PR

BradenHead

Comment: Pressure Monitored
CA:
CA Date:

Facility ID: 437889 Type: WELL API Number: 123-39753 Status: PR Insp. Status: PR

Producing Well

Comment: PR

BradenHead

Comment: Pressure Monitored
CA:
CA Date:

Facility ID: 438086 Type: WELL API Number: 123-39869 Status: PR Insp. Status: PR

Producing Well

Comment: PR

BradenHead

Comment: Pressure Monitored
CA:
CA Date:

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: RANGELAND

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

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: RANGELAND

Reminder: _____

Comment: _____

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

Inspector Name: Gomez, Jason

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
Waddles	Pass					
Gravel	Pass	Gravel	Pass			

S/A/V: SATISFACTOR Corrective Date: _____
Y _____

Comment: _____

CA: _____

Pits: NO SURFACE INDICATION OF PIT