

**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:

05/26/2016

Document Number:

673803238

Overall Inspection:

SATISFACTORY w/ CMT
or AR**FIELD INSPECTION FORM**

| | | | | | |
|---------------------|-------------|--------|-----------------|--------------------------|-------------|
| Location Identifier | Facility ID | Loc ID | Inspector Name: | On-Site Inspection | 2A Doc Num: |
| | 441878 | 441879 | 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: SWSE Sec: 22 Twp: 5N Range: 64W**Inspector Comment:****Related Facilities:**

| Facility ID | Type | Status | Status Date | Well Class | API Num | Facility Name | Insp Status | |
|-------------|------|--------|-------------|------------|-----------|--------------------|-------------|-------------------------------------|
| 441875 | WELL | DG | 07/31/2015 | LO | 123-41547 | SAPPINGTON 22T-201 | PR | <input checked="" type="checkbox"/> |
| 441876 | WELL | DG | 07/10/2015 | LO | 123-41548 | Sappington 22Q-301 | PR | <input checked="" type="checkbox"/> |
| 441877 | WELL | DG | 07/17/2015 | LO | 123-41549 | Sappington 22Q-221 | PR | <input checked="" type="checkbox"/> |
| 441878 | WELL | DG | 07/24/2015 | LO | 123-41550 | Sappington 22T-341 | PR | <input checked="" type="checkbox"/> |

Equipment:**Location Inventory**

| | | | |
|-----------------------------|-------------------------|----------------------|-------------------------|
| Special Purpose Pits: _____ | Drilling Pits: _____ | Wells: <u>4</u> | Production Pits: _____ |
| Condensate Tanks: _____ | Water Tanks: <u>7</u> | Separators: <u>4</u> | Electric Motors: _____ |
| Gas or Diesel Motors: _____ | Cavity Pumps: _____ | LACT Unit: _____ | Pump Jacks: _____ |
| Electric Generators: _____ | Gas Pipeline: _____ | Oil Pipeline: _____ | Water Pipeline: _____ |
| Gas Compressors: _____ | VOC Combustor: <u>3</u> | Oil Tanks: <u>12</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 |
| WELLHEAD | SATISFACTORY | | | |
| BATTERY | SATISFACTORY | | | |
| WELLHEAD | SATISFACTORY | | | |
| TANK LABELS/PLACARDS | 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 |
| <input type="checkbox"/> Multiple Spills and Releases? | | | | |

| Fencing/: | | | | |
|------------------|------------------------------|--------------|-------------------|---------|
| Type | Satisfactory/Action Required | Comment | Corrective Action | CA Date |
| WELLHEAD | SATISFACTORY | Ag Panel | | |
| OTHER | SATISFACTORY | Ag Panel | | |
| OTHER | SATISFACTORY | ECD ag panel | | |
| OTHER | SATISFACTORY | Ag Panel | | |
| WELLHEAD | SATISFACTORY | Ag Panel | | |
| WELLHEAD | SATISFACTORY | Ag Panel | | |
| WELLHEAD | SATISFACTORY | Ag Panel | | |
| OTHER | SATISFACTORY | Ag Panel | | |

| Equipment: | | | | |
|-------------------------------|-----|-------------------------------|--------------|-------|
| Type: Emission Control Device | # 4 | Satisfactory/Action Required: | SATISFACTORY | |
| Comment | | | | |
| Corrective Action | | | | Date: |
| Type: Compressor | # 1 | Satisfactory/Action Required: | SATISFACTORY | |
| Comment | | | | |
| Corrective Action | | | | Date: |
| Type: Gas Meter Run | # 5 | Satisfactory/Action Required: | SATISFACTORY | |
| Comment | | | | |
| Corrective Action | | | | Date: |

Inspector Name: Gomez, Jason

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|-------------------------------------|-----|-------------------------------|--------------|
| Type: Bird Protectors | # 8 | Satisfactory/Action Required: | SATISFACTORY |
| Comment | | | |
| Corrective Action | | | Date: |
| Type: Plunger Lift | # 4 | Satisfactory/Action Required: | SATISFACTORY |
| Comment | | | |
| Corrective Action | | | Date: |
| Type: Ancillary equipment | # 1 | Satisfactory/Action Required: | SATISFACTORY |
| Comment Methonal pump w/containment | | | |
| Corrective Action | | | Date: |
| Type: Horizontal Heated Separator | # 4 | Satisfactory/Action Required: | SATISFACTORY |
| Comment | | | |
| Corrective Action | | | Date: |

Facilities: ☐ New Tank Tank ID: _____

| | | | | |
|--------------------|--------------|----------|------------------|-----------------------|
| Contents | # | Capacity | Type | SE GPS |
| PRODUCED WATER | 2 | 100 BBLS | PBV FIBERGLASS | 40.380340,-104.531330 |
| S/AR | SATISFACTORY | | Comment: | |
| Corrective Action: | | | Corrective Date: | |

Paint

| | |
|-----------|----------|
| Condition | Adequate |
|-----------|----------|

Other (Content) _____

Other (Capacity) _____

Other (Type) _____

Berms

| | | | | |
|-------------------|----------|---------------------|---------------------|-------------|
| Type | Capacity | Permeability (Wall) | Permeability (Base) | Maintenance |
| Metal | Adequate | Walls Sufficent | Base Sufficent | Adequate |
| Corrective Action | | | Corrective Date | |
| Comment | | | | |

Facilities: ☐ New Tank Tank ID: _____

| | | | | |
|--------------------|--------------|----------|---------------------------------|-----------------------|
| Contents | # | Capacity | Type | SE GPS |
| PRODUCED WATER | 3 | 500 BBLS | STEEL AST | 40.380090,-104.531440 |
| S/AR | SATISFACTORY | | Comment: Temporary tanks/ Black | |
| Corrective Action: | | | Corrective Date: | |

Paint

| | |
|-----------|------------|
| Condition | Inadequate |
|-----------|------------|

Other (Content) _____

Other (Capacity) _____

Other (Type) _____

Berms

| | | | | |
|------|----------|---------------------|---------------------|-------------|
| Type | Capacity | Permeability (Wall) | Permeability (Base) | Maintenance |
|------|----------|---------------------|---------------------|-------------|

Inspector Name: Gomez, Jason

| | | | | | |
|-------------------|----------|------------------|-----------------|----------|-----------------|
| Metal | Adequate | Walls Sufficient | Base Sufficient | Adequate | |
| Corrective Action | | | | | Corrective Date |
| Comment | | | | | |

Facilities: ☐ New Tank Tank ID: _____

| | | | | |
|--------------------|--------------|----------|-----------|-----------------------|
| Contents | # | Capacity | Type | SE GPS |
| CRUDE OIL | 8 | 300 BBLS | STEEL AST | 40.380340,-104.561330 |
| S/AR | SATISFACTORY | | Comment: | |
| Corrective Action: | | | | Corrective Date: |

Paint

| | |
|------------------|----------|
| Condition | Adequate |
| Other (Content) | _____ |
| Other (Capacity) | _____ |
| 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 | NO |
| Comment | |

Flaring:

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

Predrill

Location ID: 441878

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

S/AR: _____

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

Form 2A COAs:

| Group | User | Comment | Date |
|-------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| OGLA | andrewsd | Operator shall provide notice to COGCC 48 hours prior to commencing construction of this Oil and Gas Location via Form 42. Please note that this notice is now required under Rule 316C.c. | 05/01/2015 |

S/AR: _____ **Comment:** _____**CA:** _____ **Date:** _____Wildlife BMPs:

| BMP Type | Comment |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Planning | 604c.(2).V. Development From Existing Well Pads: An existing pad was not available to utilize to develop these wells. |
| 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. |
| 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. |
| 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 | 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).S. Access Roads: PDC will utilize the lease access road off of CR 54 1/2, gravel, temporary access off of CR 54 will only be used for light pickup traffic and emergency use only. All heavy traffic will be routed from the south on CR 57, per the Town of Kersey's request. 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. |
| Drilling/Completion Operations | 604c.(2).O. Loadlines: All loadlines shall be bullplugged or capped. |
| Planning | 604c.(2).E. Multiwell Pads: This 2A application is for a 4-well pad. No suitable existing locations are in the area. |
| 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. |
| 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. |
| 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. |
| Construction | 604c.(2).G. Berm Construction: Containment berms shall be constructed of steel rings with a geosynthetic liner, designed and installed to prevent leakage and resist degradation from erosion or routine operation. 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. Due to a downgradient surface water body within 500', tertiary containment (such as an earthen berm or the like), will be installed around Production Facilities. |

| | |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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. |
| 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. |
| 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 | 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. |
| 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. |
| 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. |
| 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. |
| Material Handling and Spill Prevention | 604c.(2).F. Leak Detection Plan: See attached. |
| 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. |
| 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).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 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. |

Inspector Name: Gomez, Jason

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|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 are 3 building units of concern located 737 feet north-west, 741 feet north-west and 964 feet south-east of the proposed location. Light and sound mitigation will be installed to the north, west and south of the drill 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. |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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: 441875 Type: WELL API Number: 123-41547 Status: DG Insp. Status: PR

Producing Well

Comment: PR

BradenHead

Comment: Plumbed to surface

CA: _____

CA Date: _____

Facility ID: 441876 Type: WELL API Number: 123-41548 Status: DG Insp. Status: PR

Producing Well

Comment: PR

Inspector Name: Gomez, Jason

BradenHead

Comment: Plumbed to surface

CA:

CA Date:

Facility ID: 441877 Type: WELL API Number: 123-41549 Status: DG Insp. Status: PR

Producing Well

Comment: PR

BradenHead

Comment: Plumbed to surface

CA:

CA Date:

Facility ID: 441878 Type: WELL API Number: 123-41550 Status: DG Insp. Status: PR

Producing Well

Comment: PR

BradenHead

Comment: Plumbed to surface

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:

DWR Receipt Num: Owner Name: GPS : Lat Long

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:

Inspector Name: Gomez, Jason

1003a. Waste and Debris removed? Pass

CM _____

CA _____

CA Date _____

Unused or unneeded equipment onsite? Pass

CM _____

CA _____

CA Date _____

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

CM _____

CA _____

CA Date _____

Guy line anchors marked? _____

CM _____

CA _____

CA Date _____

1003b. Area no longer in use? Pass

Production areas stabilized ? Pass

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? Pass

Segregated soils have been replaced? Pass

RESTORATION AND REVEGETATION

Cropland

Top soil replaced Pass

Recontoured Pass

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: _____

Inspector Name: Gomez, Jason

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 |
|------------------|-----------------|-------------------------|-----------------------|---------------|--------------------------|---------|
| Gravel | Pass | | | | | |

S/A/V: SATISFACTOR
Y

Corrective Date:

Comment:

CA:

Pits: ☒ NO SURFACE INDICATION OF PIT