

Inspector Name: Rickard, Jeff

**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:

07/27/2016

Document Number:

674103512

Overall Inspection:

SATISFACTORY**FIELD INSPECTION FORM**

|                     |             |        |                 |                          |             |
|---------------------|-------------|--------|-----------------|--------------------------|-------------|
| Location Identifier | Facility ID | Loc ID | Inspector Name: | On-Site Inspection       | 2A Doc Num: |
|                     | 446475      | 446474 | Rickard, Jeff   | <input type="checkbox"/> |             |

**Operator Information:**OGCC Operator Number: 10359Name of Operator: WARD PETROLEUM CORPORATIONAddress: PO BOX 1187City: ENID State: OK Zip: 73702

- ☐ 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 |
|-----------------|-------------|----------------------------|---------|
| Hal, Marshall   | 970-3895487 | marshall@wardpetroleum.com |         |
| Adamczyk, Megan |             | megan.adamczyk@state.co.us |         |

**Compliance Summary:**QtrQtr: SWSW Sec: 21 Twp: 1N Range: 66W**Inspector Comment:****Related Facilities:**

| Facility ID | Type | Status | Status Date | Well Class | API Num   | Facility Name  | Insp Status |                                     |
|-------------|------|--------|-------------|------------|-----------|----------------|-------------|-------------------------------------|
| 446475      | WELL | XX     | 07/05/2016  |            | 123-43337 | Sack 21-4-12HC | DG          | <input checked="" type="checkbox"/> |

**Equipment:**Location Inventory

|                             |                        |                      |                         |
|-----------------------------|------------------------|----------------------|-------------------------|
| Special Purpose Pits: _____ | Drilling Pits: _____   | Wells: <u>6</u>      | Production Pits: _____  |
| Condensate Tanks: _____     | Water Tanks: <u>6</u>  | Separators: <u>6</u> | Electric Motors: _____  |
| Gas or Diesel Motors: _____ | Cavity Pumps: _____    | LACT Unit: _____     | Pump Jacks: _____       |
| Electric Generators: _____  | Gas Pipeline: _____    | Oil Pipeline: _____  | Water Pipeline: _____   |
| Gas Compressors: <u>1</u>   | VOC Combustor: _____   | Oil Tanks: <u>18</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 |
|------|------------------------------|---------|-------------------|---------|
|      |                              |         |                   |         |

Inspector Name: Rickard, Jeff

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  |  |
|---------|--|
| Comment |  |

**Flaring:**

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

**Predrill**

Location ID: 446475

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   |
|--------------------------------|---|
| Drilling/Completion Operations | Closed Loop System will be used for drilling and fluid management. No reserve pit will be used. |

|  |   |
|--|---|
| Storm Water/Erosion Control            | <p>Erosion Control Measures: Ward will maintain a Stormwater Management Plan with site specific measurements to assess erosion control. Ward will make thorough inspections, in accordance with the requirements set forth by CDPHE Water Quality Division (WQD). The inspection schedule is as follows:</p> <p>While site is under construction, an inspection is required at least every 14 calendar days; Post storm event inspections must be conducted within 24 hours after the end of any precipitation or snowmelt event that causes surface erosion.</p> <p>Inspection records will be kept on file for a minimum of three (3) years from expiration or inactivation of permit coverage. These records will be made available to the COGCC upon request.</p> |
| Noise mitigation                       | <p>Noise: An ambient sound study will be conducted to determine noise impacts to the nearby residents to the southwest. Based on the results of the noise study, the appropriate sound mitigation design will be implemented. Sound mitigation will include sound walls and will be erected to reduce noise pollution. Results of the noise study will be made available to the COGCC upon request.</p>   |
| Material Handling and Spill Prevention | <p>Leak Detection Plan: Leak Detection Plan is attached as Document #1010072.</p>   |
| Interim Reclamation                    | <p>Interim Restoration (Production): Rehabilitation of unneeded, previously disturbed areas will consist of backfilling and contouring the reserve pit area, back sloping, and contouring all cut &amp; fill slopes. These areas will be reseeded. The portions of the cleared well site not needed for operational and safety purposes will be recontoured to the original contour if feasible, or if not feasible, to an interim contour that blends with the surrounding topography as much as possible. Sufficient level area will remain for setup of a workover rig and to park equipment. In some cases, rig anchors may need to be pulled and reset after recontouring to allow for maximum interim reclamation.</p>  |
| General Housekeeping                   | <p>Ward agrees that all trash, refuse pipe, equipment, liquids, chemicals or other materials that are not necessary for the continued operations of the wells will be removed and disposed of no later than 30 days after completion. No such items will be burned or buried on location.</p>   |
| Material Handling and Spill Prevention | <p>Tanks shall be constructed and maintained in accordance with the National Fire Protection Association Code 30 (2008 version). All tanks will be visually inspected once a day. Recorded inspections will be conducted once a month pursuant to 40 CFR §112.</p>  |
| Final Reclamation                      | <p>Identification of Plugged and Abandoned Wells: Pursuant to Rule 319.a.(5), once the well has been plugged and abandoned, Ward will identify the location of the wellbore with a permanent monument that will detail the well name and date of plugging.</p>  |
| General Housekeeping                   | <p>All guy line anchors left buried for future use will be identified by a marker of bright color not less than four (4) feet in height and not greater than one (1) foot east of the guy line anchor.</p>  |
| Drilling/Completion Operations         | <p>One of the first wells drilled on the pad will be logged with open-hole Resistivity Log and Gamma Ray Log from the kick-off point into the surface casing. All wells on the pad will have a cement bond log with gamma-ray run on production casing (or on intermediate casing if production liner is run) into the surface casing. The horizontal portion of every well will be logged with a measured-while-drilling gamma-ray log. The Form 5, Completion Report, for each well on the pad will list all logs run and have those logs attached. The Form 5 for a well without open-hole logs shall clearly state "No open-hole logs were run" and shall clearly identify (by API#, well name &amp; number) the well in which open-hole logs were run.</p>       |
| Drilling/Completion Operations         | <p>Flow lines, separators, and sand traps capable of supporting green completions as described in Rule 805 will be installed at this location which Ward anticipates commercial quantities of gas are reasonably expected to be produced based on existing adjacent wells within 1 mile.</p> <p>Test separators and associated flow lines and sand traps will be installed on-site to accommodate Green completion techniques pursuant to COGCC Rules.</p>  |
| Dust control                           | <p>Ward will comply with Rule 805.c and take all practicable measures to control fugitive dust caused by the operation, including but not limited to wetting the soil with fresh water via a truck with a spreader bar if deemed necessary.</p>   |

|  |  |
|--|--|
| Odor mitigation                        | Odor Mitigation: In compliance with Rule 805 and 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. Ward will utilize a VRU to reduce odor emissions during production.  |
| Drilling/Completion Operations         | Lighting: No permanent lighting will be onsite. During drilling and completions, lighting will be cast downward and will not impede traffic on County Road 29 and 6. Sound walls will help mitigate lighting on the street and to the nearby residents.  |
| Drilling/Completion Operations         | BOPE tests will be run upon initial rig-up and at least once every thirty (30) days during drilling operations. Pressure testing of the casing string and each component of the blowout prevention equipment, including flange connections, will be performed to seventy percent (70%) of working pressure or seventy percent (70%) of the internal yield of casing, whichever is less.  |
| Traffic control                        | Traffic: Weld County requires an Access Permit. Per Weld County, a Traffic Control Plan is provided by the county. Per Weld County regulations, vehicles or construction equipment will not be parked in the travel way and should be moved to the shoulder. No traffic obstructions will be done at night. The access permit is being prepared and will be obtained prior to any construction. Ward will comply with all Weld County conditions of approval. Most traffic will utilize Highway 85 from Greeley or Brighton onto County Road 6. An 8" x 30" culvert will be installed. Ward will utilize truckers with larger hauling capacity to minimize traffic impacts.  |
| Material Handling and Spill Prevention | Ward and its contractor's employ best management practices during the drilling and production of its wells and facilities. They will comply with appropriate COGCC and county rules concerning fire and safety. Ward will ensure that any material not in use that might constitute a fire hazard will remain no less than 25 feet from the wellhead (s), tanks and separator(s).  |
| Material Handling and Spill Prevention | Berming: A steel containment berm or structure will be erected around the oil and water storage tanks. The berm will be inspected at least every 14 calendar days while the site is under construction and within 24 hours of a precipitation event. Inspection records will be kept on file for a minimum of five (5) years (per COGCC Rule 205.f) from expiration or inactivation of permit coverage. These records will be made available to the COGCC upon request. One to seven audio, visual, olfactory inspections per week will be recorded and kept in the district office and available to COGCC upon request. During production phase, berm will be inspected at least every 14 calendar days and within 24 hours of a precipitation event. |
| Construction                           | Fencing: The wellsite will be fenced unless otherwise requested by the Surface Owner.  |
| Final Reclamation                      | Well site cleared: Within 90 days subsequent to the time of plugging and abandonment of the entire site, superfluous debris and equipment shall be removed from the site.  |
| Planning                               | In order to reduce surface disturbance and require multiple well pads, Ward is permitting a multiwell pad.   |

**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:

Inspector Name: Rickard, Jeff

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: 446475 Type: WELL API Number: 123-43337 Status: XX Insp. Status: DG

**Complaint**

Comment: **Complaint DOC# 200439984.**  
Area resident to the south of location complained about dust and noise.  
Dust: Complainant main concern was dust when the location was being built. The location was constructed and was actively drilling when OGCC staff was on location on 7/27/16, so OGCC did not observe the location being constructed. OGCC inspector observed that the built location did not have any dust issues on the date of inspection. CR 6 had been treated at time of inspection.  
  
Noise: Complainant complained about a "continuous, noise you can hear". OGCC inspector began a noise survey for A Scale noise at 13:00 on 7/27/16. At the time of the survey the location was actively drilling. The survey was run at 40.03048, -104.79114. Due to land access the noise survey had to be run on the side of CR 29 so there are occasional peaks in the sound survey due to traffic. A picture of the sound survey location is attached. The survey was run 350 ft from the sound walls. The results of the survey were 56.5 db LeqA which meets the 80db day and 75 db night thresholds for Rule 802.  
  
18A DOC#20043990

**Well Drilling**

**Rig:** Rig Name: Extreme Pusher/Rig Manager: \_\_\_\_\_  
Permit Posted: \_\_\_\_\_ Access Sign: \_\_\_\_\_

**Well Control Equipment:**

Pipe Ram: \_\_\_\_\_ Blind Ram: \_\_\_\_\_ Hydril Type: \_\_\_\_\_  
Pressure Test BOP: \_\_\_\_\_ Test Pressure PSI: \_\_\_\_\_ Safety Plan: \_\_\_\_\_

**Drill Fluids Management:**

Lined Pit: \_\_\_\_\_ Unlined Pit: \_\_\_\_\_ Closed Loop: YES Semi-Closed Loop: \_\_\_\_\_  
Multi-Well: NO Disposal Location: \_\_\_\_\_

**Comment:**

\_\_\_\_\_

**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): N \_\_\_\_\_

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**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:**

Inspector Name: Rickard, Jeff

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

**Attached Documents**

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

| Document Num | Description           | URL   |
|--------------|-----------------------|---|
| 674103513    | Sound survey Location | <a href="http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=3913701">http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=3913701</a> |