

**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:  
07/29/2016  
Document Number:  
682401121

**FIELD INSPECTION FORM**

Location Identifier	Facility ID	Loc ID	Inspector Name:	On-Site Inspection	2A Doc Num:
	446252	446251	Binschus, Chris	<input type="checkbox"/>	

Overall Inspection:  
**SATISFACTORY w/ CMT or AR**

**Operator Information:**

OGCC Operator Number: 10359  
Name of Operator: WARD PETROLEUM CORPORATION  
Address: PO BOX 1187  
City: 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:**

**Compliance Summary:**

QtrQtr: SWSW Sec: 27 Twp: 1N Range: 66W

**Inspector Comment:**

*This is a stormwater inspection on a recent construction build. See COGCC comments section.*

**Related Facilities:**

Facility ID	Type	Status	Status Date	Well Class	API Num	Facility Name	Insp Status
446252	WELL	DG	08/05/2016		123-43290	Rael 34-4-2HC	RI <input checked="" type="checkbox"/>

**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

Emergency Contact Number (S/AR): \_\_\_\_\_ Corrective Date: \_\_\_\_\_  
Comment: \_\_\_\_\_  
Corrective Action: \_\_\_\_\_



BMP Type	Comment
Material Handling and Spill Prevention	<p>Leak Detection Plan: To ensure protection for the surface during fracturing treatment, the location will be specifically constructed to contain any releases or spills. A steel containment berm or structure will be used for secondary containment. They will have a capacity of 110% or greater of the largest tank plus largest annual rainfall. Secondary containment from any chemical spills or leaks will surround any trucks that carry, mix, or add chemicals to the flow stream as well as connections that could possibly leak fluid. Should any spill or release occur, every reasonable step will be taken to quickly remediate the area disturbed. Ward will utilize tank level indicators with an alarming system, and remote shut in capability. Tanks will alarm if the float reads above set threshold. Well can be shut in remotely or tank can be sold or moved to another tank. One to seven audio, visual, olfactory inspections per week will be recorded and kept in the district office and available to COGCC upon request. Ward has implemented a Leak Detection and Repair (LDAR) program in accordance with the schedule set forth in Regulation 7 Section XVII.F.4. for all facilities. Records will be kept electronically indefinitely. Ward will also abide by EPA mandated SPCC rules to ensure proper fluid containment.</p> <p>During transfers Oil and water load lines will have drip pots.</p> <p>Ward has a Flowline Integrity Program in place. Lines are either to be welded or threaded, some lines may be non-metallic. Welded Flowlines will be installed with welded or flanged connections. All threaded metallic pipe will be joined with appropriate lubricant/sealant. All non-metallic pipes that require welded joints will be installed with appropriate equipment to meet manufacturer recommendations and welded with qualified welders. All buried non-metal Flowline installation will contain a continuous metallic tracer line attached to the pipeline with surface access or other means of surface location. All flowlines will be pressure tested to their maximum manufactured value (at minimum 80%) prior to hydrocarbon production use. 10% of welds will be x-rayed for integrity. Chemical inspection program begins as soon as well begins flowback. Ward will perform yearly flowline inspections to ensure flowline integrity and prevent leaks/spills. Records of inspections will be available to COGCC upon request.</p>
Drilling/Completion Operations	<p>There is not a viable gas sales line at this moment. Ward anticipates the need to flare up to 90 days prior to a gas line being available. Ward will utilize a natural gas liquid stripping unit if practical to minimize emissions and the gas flare will be enclosed. If a gas sales line is not completed prior to 90 days of flaring, the well will be Shut In or a Variance Request will be submitted for an extended flare.</p>
Drilling/Completion Operations	<p>Pit Level Indicators: Pit Level Indicators will not be needed as no pits will be used on location.</p>
Drilling/Completion Operations	<p>BOPE for well servicing operations: Adequate blowout prevention equipment will be used on any servicing operations associated with this well. Backup staving valves shall be required on well servicing operations during reverse circulation. Valves will be pressure tested before each well servicing operation using both low-pressure and high-pressure fluid.</p>
Planning	<p>No permanent lighting will be onsite. During drilling and completions, lighting will be cast downward and will not impede traffic on County Road 4 and 31. Sound walls will help mitigate lighting on the street and to the nearby residents.</p>
Material Handling and Spill Prevention	<p>Control of Fire Hazards: 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 any county rules concerning fire and safety. Ward will ensure that any flammable material will remain no less than 25 feet from the wellhead (s), tanks and separator(s).</p>
Material Handling and Spill Prevention	<p>Tank specifications: 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 for issues. Recorded inspections will be conducted once a month pursuant to 40 CFR §112.</p>
Traffic control	<p>Ward will construct all leasehold road to accommodate local emergency vehicle access requirements and will be maintained in a reasonable condition.</p>
Planning	<p>Development from existing well pads: In order to reduce surface disturbance, Ward is permitting this 2A for eight (8) wells.</p>
Final Reclamation	<p>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.</p>

Emissions mitigation	<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> <p>Test separators and associated flow lines and sand traps will be installed onsite to accommodate Green completions techniques pursuant to COGCC rules. In the anticipated absence of a viable gas sales line, the flow-back gas shall be thermally oxidized in an Emissions Control Device (ECD) which will be installed and kept in operable conditions for at least the first 90-days of production pursuant to Colorado Department of Public Health and Environmental rules. This ECD will have an adequate capacity for 1.5 times the largest flowback within a 10 mile radius, will be flanged to route gas to other or permanent oxidizing equipment and will be provided with the equipment needed to maintain combustion where non-combustible gases are present. There is not a viable gas sales line at this moment and we anticipate the need to flare up to 90 days prior to a gas line being available. We will utilize a natural gas liquid stripping unit if practical to minimize emissions and the gas flare will be enclosed. If a gas sales line is not completed prior to 90 days of flaring, the well will be SI or a variance requested.</p>
Drilling/Completion Operations	Green Completions: Emission Control Systems. Test separators and associated flow lines and sand traps shall be installed on-site to accommodate Green completion techniques pursuant to COGCC Rules.
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..
Drilling/Completion Operations	Drill Stem Tests: Drill Stem Tests are not anticipated for this location.
Planning	Visual Mitigation: Pursuant to Rule 804, the tank battery shall be painted in uniform, non-contrasting, non-reflective color tones with the colors matched to but slightly darker than the surrounding landscape.
Traffic control	Traffic Plan: Weld County does not require a traffic plan. If Weld County requests, a Traffic Plan will be prepared and submitted to Weld County. 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. An 8" x 30" culvert will be installed. Ward will utilize truckers with larger hauling capacity to minimize traffic impacts.
Drilling/Completion Operations	BOPE: Ward will utilize drilling rigs with a minimum of a double ram and annular preventer.
General Housekeeping	Removal of Surface Trash: Ward agrees that all trash, refuse pipe, equipment, liquids, chemicals of 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.
Noise mitigation	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.
General Housekeeping	Guy Line Anchors: All guy line anchors left buried for future use will be identified by a marker of bright color not less than four feet in height and not greater than one foot east of the guy line anchor.
General Housekeeping	Fencing: The wellsite will be fenced if requested by the Surface Owner.

Inspector Name: Binschus, Chris

Drilling/Completion Operations	BOPE Testing: Upon initial rig-up and once every 30 days during drilling operations, pressure testing of the casing string and each component of the BOPE will be performed to 70% of working pressure or 70% of the internal yield of the casing, whichever is less.
Final Reclamation	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.
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.
Storm Water/Erosion Control	Site Specific Measures: Ward will maintain a Stormwater Management Plan with site specific measurements to assess erosion control.
Dust control	Operator 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.

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: 446252 Type: WELL API Number: 123-43290 Status: DG Insp. Status: RI

**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: \_\_\_\_\_

<b>Water Well:</b>	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 \_\_\_\_\_

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: SATISFACTOR Corrective Date: \_\_\_\_\_

Y \_\_\_\_\_

Comment: \_\_\_\_\_

CA: \_\_\_\_\_

**Pits:**  NO SURFACE INDICATION OF PIT

**COGCC Comments**

Comment	User	Date
Stormwater BMPs were installed along the perimeter of the location. BMPs should be used to stabilize the topsoil stockpile from wind erosion due to the predominately sandy soil. Refer to attached photos in Document #682401122.	binschusc	08/09/2016

**Attached Documents**

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

Document Num	Description	URL
682401121	INSPECTION APPROVED	<a href="http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=3923706">http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=3923706</a>
682401122	Location Photos	<a href="http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=3923705">http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=3923705</a>