

**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:

08/18/2016

Document Number:

682401171

Overall Inspection:

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

Location Identifier	Facility ID	Loc ID	Inspector Name:	On-Site Inspection
	446907	446906	Binschus, Chris	<input type="checkbox"/> 2A Doc Num: _____

**Operator Information:**OGCC Operator Number: 10459Name of Operator: EXTRACTION OIL & GAS LLCAddress: 370 17TH STREET SUITE 5300City: DENVER State: CO Zip: 80202

- ☐ 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
Arthur, Denise		denise.arthur@state.co.us	
,		COGCCInspections@extracti onog.com	All inspections

**Compliance Summary:**QtrQtr: SENE Sec: 9 Twp: 6N Range: 67W**Inspector Comment:**

**This is a stormwater inspection. See Stormwater section and COGCC Comments section for additional information.**

**Related Facilities:**

Facility ID	Type	Status	Status Date	Well Class	API Num	Facility Name	Insp Status	
446907	WELL	XX	07/24/2016		123-43400	Winder South 4	XX	<input type="checkbox"/>
446908	WELL	XX	07/24/2016		123-43401	Winder South 7	XX	<input type="checkbox"/>
446909	WELL	DG	08/09/2016		123-43402	Winder South 1	RI	<input checked="" type="checkbox"/>
446910	WELL	XX	07/24/2016		123-43403	Winder South 6	XX	<input type="checkbox"/>
446911	WELL	DG	08/10/2016		123-43404	Winder South 2	RI	<input checked="" type="checkbox"/>
446912	WELL	XX	07/24/2016		123-43405	Winder South 8	XX	<input type="checkbox"/>
446913	WELL	XX	07/24/2016		123-43406	Winder South 9	XX	<input type="checkbox"/>
446914	WELL	XX	07/24/2016		123-43407	Winder South 5	XX	<input type="checkbox"/>
446915	WELL	DG	08/11/2016		123-43408	Winder South 3	RI	<input checked="" type="checkbox"/>
446932	WELL	XX	07/24/2016		123-43419	Winder South 10	XX	<input type="checkbox"/>

**Equipment:**Location Inventory

Special Purpose Pits: _____	Drilling Pits: _____	Wells: <u>12</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**

Emergency Contact Number (S/AR): \_\_\_\_\_

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

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

Corrective Action: \_\_\_\_\_

**Spills:**

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

Yes/No \_\_\_\_\_

Comment \_\_\_\_\_

**Flaring:**

Type \_\_\_\_\_ Satisfactory/Action Required \_\_\_\_\_

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

Corrective Action: \_\_\_\_\_ Correct Action Date: \_\_\_\_\_

**Predrill**

Location ID: 446907

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
Emissions mitigation	<p>Green Completions - Emission Control System: Test separators and associated flow lines and sand traps shall be installed on-site to accommodate green completions techniques pursuant to COGCC Rules. In the anticipated absence of a viable gas sales line, the flowback gas shall be thermally oxidized in an emissions control device (ECD), which will be installed and kept in operable condition for least the first 90-days of production pursuant to CDPHE rules. This ECD shall 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 shall be provided with the equipment needed to maintain combustions where non-combustible gases are present. Test separators and associated flow lines and sand traps shall be installed on-site to accommodate green completions techniques pursuant to COGCC Rules.</p> <p>Extraction will tie into a gas sales line after flowback.</p>
Odor mitigation	<p>Equipment shall be operated in such a manner that odors and dust do not constitute a nuisance or hazard to public welfare.</p> <p>Oil and gas operations shall 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.</p>

Construction	<p>COGCC MLVT BMPs</p> <ul style="list-style-type: none"> <li>• Operator has an MLVT Design Package, certified and sealed by a licensed professional engineer, which is on file in their office and available upon request.</li> <li>• The MLVT will be at least 75 feet from a wellhead, fired vessel, heater-treater, or a compressor with a rating of 200 horsepower or more. It will be placed at least 50 feet from a separator, well test unit, or other non-fired equipment.</li> <li>• All liner seams will be welded and tested in accordance with applicable ASTM International standards.</li> <li>• Operator will be present during initial filling of the MLVT and the contractor will supervise and inspect the MLVT for leaks during filling.</li> <li>• Operator will comply with the testing and reinspection requirements and associated written standard operating procedures (SOP) listed on the design package.</li> <li>• Signs will be posted on the MLVT indicating that the contents are freshwater.</li> <li>• The MLVT will be operated with a minimum of 1 foot of freeboard at all times.</li> <li>• Access to the MLVT will be limited to operational personnel and authorized regulatory agency personnel.</li> <li>• Operator or contractor will conduct daily visual inspections of the exterior wall and surrounding area for integrity deficiencies.</li> <li>• Operator has developed a contingency plan/emergency response plan associated with the MLVT and it is on file at their office.</li> <li>• Construction: Operator acknowledges and will comply with the Colorado Oil &amp; Gas Conservation Commission Policy on the Use of Modular Large Volume Tanks in Colorado dated June 13, 2014.</li> </ul>
General Housekeeping	<p>Visual Impacts: Equipment, regardless of construction date, which are observable from any public highway shall 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.</p> <p>Maintain appearance with garbage clean-up; a trash bin will be located on site to accumulate waste by the personnel drilling the wells. Site will have unused equipment, trash and junk removed immediately. Operator shall keep the Surface Use Area as well as any roads or other areas used by Operator safe and in good order, including control of noxious weeds litter and debris.</p>
Storm Water/Erosion Control	Use water bars, and other measures to prevent erosion and non-source pollution. Implement and maintain BMPs to control stormwater runoff in a manner that minimizes erosion, transport of sediment offsite, and site degradation. Co-locate gas and water gathering lines whenever feasible, and mitigate any erosion problems that arise due to the construction of any pipeline(s).
Construction	Lighting: Site lighting will be directed downward and inward and shielded to avoid glare on public roads and Building Units within one thousand (1000) feet. Once the drilling and completion rigs leave the site, there will be no permanently installed lighting on site.
Noise mitigation	<p>Sound walls and/or hay bales will be used on the North, South, East, and West sides of the well site during drilling operations to shield sensitive areas.</p> <p>Baseline noise monitoring and testing will be conducted prior to commencement of construction and dirt work.</p>
Construction	Guy line anchors: All guy line anchors shall be brightly marked pursuant to Rule 604.c.(2)Q.
Interim Reclamation	Operator shall be responsible for segregating the topsoil, backfilling, repacking, reseeding, and recontouring the surface of any disturbed area so as not to interfere with Owner's operations and shall reclaim such area to be returned to pre-existing conditions as best as possible with control of all noxious weeds.
Drilling/Completion Operations	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 & number) the well in which open-hole logs were run.

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Material Handling and Spill Prevention	<p>Leak Detention Plan: Operator will monitor production facilities on a regular schedule to identify fluid leaks, including, but not limited to, visually inspecting all wellheads, tanks and fittings. Additionally annual SPCC inspections will be conducted and documented.</p> <p>Control of fire hazards: All material that is considered a fire hazard shall be a minimum of 25' from the wellhead tanks or separators. Electrical equipment shall comply with API IRP 500 and will comply with the current national electrical code.</p> <p>Operator shall comply with state and federal laws, rules and regulations governing the presence of any petroleum products, toxic or hazardous chemicals or wastes on the Subject lands.</p> <p>Annual flowline testing will also occur according to COGCC rules 1101 and 1102. Inspection and record retention of flowline testing will be in accordance per COGCC regulation. All records will be made available to the COGCC upon request.</p>
Construction	<p>To protect building units downstream of the MLVTs, earthen berming will be utilized. The topsoil stockpile for the pad will be located along the southern most edge of the pad. This stockpile will be 10 feet tall and will act as a BMP to downstream building unit owners. Along the southwest edge of the pad, south of the MLVTs, an earthen berm will be constructed on the top edge of the pad. This earthen berm shall be constructed 18 inches in height and will be constructed prior to or concurrently with installation of the MLVTs. This earthen berm shall remain in place until the MLVTs are removed from location.</p>
Planning	<p>Multi-Well Pads are located in a manner which allows for resource extraction while maintaining the highest distances possible from the offsetting residential areas and complies with the wishes of the surface owner.</p> <p>A meeting with the surface owner will determine the fencing plan.</p>
Drilling/Completion Operations	<p>A closed –loop system will be used for drilling operations.</p> <p>Blowout Prevention Equipment ("BOPE"): A double ram and annular preventer will be used during drilling. Stabbing valves shall be installed in the event of reverse circulation and shall be prior tested with low and high pressure fluid.</p> <p>Bradenhead Monitoring: Operator acknowledges and will comply with COGCC Policy for Bradenhead Monitoring during Hydraulic Fracturing Treatments in the Greater Wattenberg Area dated May 29, 2012.</p>
Final Reclamation	<p>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. The Operator shall restore the surface of the Land affected by such terminated operations as near as possible to the previous state that existed prior to operations.</p>
Dust control	<p>Operator shall employ practices for control of fugitive dust caused by their operations. Such practices shall include but are 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. Additional management practices such as road surfacing, wind breaks and barriers may be used.</p>
Traffic control	<p>Access Roads: The access road will be constructed to accommodate local emergency vehicles. This road will be maintained for access at all times. A traffic study is not required to obtain an access in Weld County.</p>

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

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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: 446909 Type: WELL API Number: 123-43402 Status: DG Insp. Status: RI

Facility ID: 446911 Type: WELL API Number: 123-43404 Status: DG Insp. Status: RI

Facility ID: 446915 Type: WELL API Number: 123-43408 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: \_\_\_\_\_

**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: IRRIGATED

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

1003a. Waste and Debris removed? \_\_\_\_\_

CM \_\_\_\_\_

CA \_\_\_\_\_ CA Date \_\_\_\_\_

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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: 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 ☐

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<b>Storm Water:</b>						
Loc Erosion BMPs	BMP Maintenance	Lease Road Erosion BMPs	Lease BMP Maintenance	Chemical BMPs	Chemical BMP Maintenance	Comment
Ditches	Pass					
Berms	Pass					

S/A/V: SATISFACTORY

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

Comment: Ditch and berm BMPs have been installed throughout entire perimeter of location and compacted to convey or divert stormwater flows away from location; however, a stabilized outlet or sediment trap needs to be installed to prevent sediment laden storm runoff from leaving location. Or, Operator shall submit calculations demonstrating the ditch and berm BMPs are sufficient to prevent sediment laden storm runoff from leaving location. Install sufficient sediment control BMPs pursuant to: Manual of Stormwater BMPs (Revised: 2015) attached to Extraction's Stormwater Management Plan ("SWMP") submitted to Colorado Department of Health and Environment, or submit calculations indicating current BMPs are sufficient via Form 4 by 9/1/16.

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

Pits: ☐ NO SURFACE INDICATION OF PIT

#### COGCC Comments

Comment	User	Date
If it is determined that additional BMPs (i.e., sediment traps) are required, installation should be completed on or before 9/1/16 because this time of the year is monsoon season increasing the potential for erosion. Please submit a Form 42 upon completing the installation of additional BMPs as described above.	binschusc	08/18/2016
In addition, equipment traffic shall be kept off BMPs so they properly function and all BMPs shall be maintained. Refer to attached photos in Document #682401172.	binschusc	08/18/2016

#### Attached Documents

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

Document Num	Description	URL
682401172	Location Photos	<a href="http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=3932758">http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=3932758</a>