

**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:  
06/20/2016  
Document Number:  
666802286  
Overall Inspection:  
SATISFACTORY

**FIELD INSPECTION FORM**

Location Identifier	Facility ID	Loc ID	Inspector Name:	On-Site Inspection	2A Doc Num:
	<u>211382</u>	<u>334861</u>	<u>Murray, Richard</u>	<input type="checkbox"/>	

**Operator Information:**

OGCC Operator Number: 10531  
Name of Operator: VANGUARD OPERATING LLC  
Address: 5847 SAN FELIPE #3000  
City: HOUSTON State: TX Zip: 77057

- 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
Axelson, Aaron	970-230-0926	aaxelson@vnrlc.com	Sr. Production Foreman
Ghan, Scott		sghan@vnrlc.com	Sr. EH&S

**Compliance Summary:**

QtrQtr: SENE Sec: 31 Twp: 6S Range: 91W

Insp. Date	Doc Num	Insp. Type	Insp Status	Satisfactory /Action Required	PA P/F/I	Pas/Fail (P/F)	Violation (Y/N)
09/01/2015	666801385	PR	PR	SATISFACTORY			No
11/12/2002	200035082	PR	PR	SATISFACTORY		Pass	No
04/15/1999	500143003	PR	PR				
09/14/1998	500143002	PR	PR			Pass	No
03/02/1998	500143001	PR	PR				

**Inspector Comment:**

Surface casing set on 4 wells, No drilling rig on location, facilities on location ID 335276

**Related Facilities:**

Facility ID	Type	Status	Status Date	Well Class	API Num	Facility Name	Insp Status	
211382	WELL	PR	05/20/2015	GW	045-07142	GIBSON GULCH UNIT 8 -31	PR	<input checked="" type="checkbox"/>
258927	WELL	PR	10/23/2012	GW	045-07669	GIBSON GULCH UNIT 7 -31	PR	<input checked="" type="checkbox"/>
425855	WELL	PR	09/01/2015	SI	045-21094	GGU MILLER 32B-31-691	DG	<input checked="" type="checkbox"/>
425856	WELL	PR	09/01/2015	SI	045-21095	GGU MILLER 32A-31-691	DG	<input checked="" type="checkbox"/>
425858	WELL	DG	10/16/2011	SI	045-21096	GGU MILLER 33D-31-691	DG	<input checked="" type="checkbox"/>
425859	WELL	PR	09/01/2015	SI	045-21097	GGU MILLER 32D-31-691	DG	<input checked="" type="checkbox"/>

**Equipment:**

Location Inventory

Inspector Name: Murray, Richard

Special Purpose Pits: _____	Drilling Pits: <u>1</u>	Wells: <u>6</u>	Production Pits: _____
Condensate Tanks: <u>4</u>	Water Tanks: <u>2</u>	Separators: <u>6</u>	Electric Motors: _____
Gas or Diesel Motors: <u>1</u>	Cavity Pumps: _____	LACT Unit: _____	Pump Jacks: _____
Electric Generators: _____	Gas Pipeline: <u>1</u>	Oil Pipeline: _____	Water Pipeline: <u>2</u>
Gas Compressors: _____	VOC Combustor: <u>1</u>	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			

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

**Equipment:**

Type: Plunger Lift	# 2	Satisfactory/Action Required: SATISFACTORY
Comment		
Corrective Action	Date: _____	

**Venting:**

Yes/No	NO
Comment	

**Flaring:**

Type	Satisfactory/Action Required
Comment:	
Corrective Action:	Correct Action Date: _____

**Predrill**

Location ID: 211382

Lease Road Adeq.: \_\_\_\_\_

Pads: \_\_\_\_\_

Soil Stockpile: \_\_\_\_\_

**S/AR:** \_\_\_\_\_

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

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

CDP Num.: \_\_\_\_\_

**Form 2A COAs:**

Group	User	Comment	Date
OGLA	kubeczko	Initiated/Completed OGLA Form 2A review on 08-28-11 by Dave Kubeczko; passed by CPW on 09-30-11 with operator submitted BMPs acceptable; passed OGLA Form 2A review on 10-07-11 by Dave Kubeczko; no COAs, BMPs are sufficient.	08/29/2011

**S/AR:** SATISFACTORY

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

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

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

**Wildlife BMPs:**

BMP Type	Comment
Storm Water/Erosion Control	<p><b>BBC STORM WATER AND SPILL CONTROL PRACTICES</b></p> <p><b>GENERAL</b></p> <ul style="list-style-type: none"> <li>• Utilize diking and other forms of containment and diversions around tanks, drums, chemicals, liquids, pits, impoundments, or well pads</li> <li>• Use drip pans, sumps, or liners where appropriate</li> <li>• Limit the amount of land disturbed during construction of pad, access road, and facilities</li> <li>• Employ spill response plan (SPCC) for all facilities</li> <li>• Dispose properly offsite any wastes fluids and other materials</li> </ul> <p><b>MATERIAL HANDLING, ACTIVITIES, PRACTICES AND STORM WATER DIVERSION</b></p> <ul style="list-style-type: none"> <li>• Secondary containment of tanks, drums, and storage areas is mandatory to prohibit discharges to surface waters. A minimum of 110% capacity required of largest storage tank within a containment area</li> <li>• Material handling and spill prevention procedures and practices will be followed to help prohibit discharges to surface waters</li> <li>• Proper loading, and transportation procedures to be followed for all materials to and from locations</li> </ul> <p><b>EROSION CONTROL</b></p> <ul style="list-style-type: none"> <li>• Pad and access road to be designed to minimize erosion</li> <li>• Pad and access road to implement appropriate erosion control devices where necessary to minimize erosion</li> <li>• Routine inspections of sites and controls to be implemented with additions, repairs, and optimization to occur as necessary to minimize erosion.</li> </ul> <p><b>EROSION CONTROL SPECIFIC TO PROTECT NEARBY IRRIGATION DITCH</b></p> <ul style="list-style-type: none"> <li>• Seed and install erosion control blankets on all fill slopes. Erosion control blankets must be designed for installation and sediment on 1 1/2: 1 or steeper slopes;</li> <li>• Install a 3' compacted, earthen perimeter berm on the pad surface at the top of all fill slopes. This perimeter berm should tie into the cut slopes and provide 360° containment of the pad; and</li> <li>• install a diversion ditch and sediment basins at the toe of all fill slopes to collect any sediment and redirect stormwater away from the irrigation ditches.</li> </ul> <p><b>SELF INSPECTION, MAINTENANCE, AND HOUSEKEEPING</b></p> <ul style="list-style-type: none"> <li>• All employees are trained in spill response, good housekeeping, material management practices, and procedures for equipment and container washing annually</li> <li>• Conduct internal storm water inspections per applicable stormwater regulations</li> <li>• Conduct routine informal inspections of all tanks and storage facilities at least weekly</li> <li>• All containment areas are to be inspected weekly or following a heavy rain event.</li> <li>• Any excessive precipitation accumulation within containment should be removed as appropriate and disposed of properly</li> <li>• All structural berms, dikes, and containment will be inspected periodically to ensure they are operating correctly</li> </ul> <p><b>SPILL RESPONSE</b></p> <ul style="list-style-type: none"> <li>• Spill response procedures as per the BBC field SPCC Plan</li> </ul> <p><b>VEHICLE &amp; LOCATION PROCEDURES</b></p> <ul style="list-style-type: none"> <li>• Vehicles entering location are to be free of chemical, oil, mud, weeds, trash, and debris</li> <li>• Location to be treated to kill weeds and bladed when necessary</li> </ul> <p>Bill Barrett Corp. – CDPHE Stormwater Permit Number: COR-039752</p>

Drilling/Completion Operations	<p>BBC GENERAL PRACTICES</p> <p>NOTIFICATIONS</p> <ul style="list-style-type: none"><li>• Proper notifications required by COGCC regulations or policy memos will be adhered to</li></ul> <p>TRENCHES/PITS/TEMPORARY FRAC TANKS</p> <ul style="list-style-type: none"><li>• Unlined pits will not be constructed on fill material.</li><li>• Drill cuttings from the wellbore will be directed into a lined and bermed surface containments. Any free liquids accumulated in the containment would be removed as soon as practicable.</li><li>• Drilling pits utilized for completion operations will be permitted (if applicable) and lined, operated in accordance with COGCC regulations, specifically Rule 903 and Rule 904. All permitted pits (Form 15) will be closed per Rule 905 and non-permitted drilling pits would be closed in accordance with Rule 1003.</li><li>• Drilling pits used for completion will be fenced with appropriate wildlife mesh on the bottom portion. Appropriate netting will be installed within 30 days of the pit becoming inactive.</li><li>• Flowback and stimulation fluids from the wells being completed will be sent to tanks and/or filters to allow the sand to settle out before the fluids are placed into the pit for reuse or disposal at a BBC SWD facility.</li><li>• All flowback water will be confined to the lined completion pit or storage tanks for a period not to exceed ninety days and will be recycled for re-use, piped or trucked offsite to one of the approved disposal facilities below. Flowback sands stored on location will be remediated and buried on location or hauled to a state approved disposal facility.<ul style="list-style-type: none"><li>o Circle B Land 33A-35-692SWD, API# 05-045-18493, UIC# 159277</li><li>o GGU Rodreick #21B-31-691 SWD, API# 05-045-13803, UIC# 159176</li><li>o Specialty #13A-28-692 SWD, API# 05-045-14054, UIC# 159212</li><li>o Scott 41D-36-692 SWD, API# 05-045-11169, UIC# 159159</li></ul></li><li>• Temporary frac tanks installed on location will have proper secondary containment according to SPCC regulations such as either putting a perimeter berm around location or around the frac tanks.</li></ul>
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Wildlife

BBC WILDLIFE BEST MANAGEMENT PRACTICES

GENERAL WILDLIFE AND ENVIRONMENTAL PROTECTION MEASURES

- Establish policies to protect wildlife (e.g., no poaching, no firearms, no dogs on location, no feeding of wildlife, etc.)
- Promptly report spills that affect wildlife to the Water Quality Control Division of CDPHE and CDOW
- Avoid location staging, refueling, and storage areas within 300 feet, of any reservoir, lake, wetland, or natural perennial or seasonal flowing stream or river.

INFRASTRUCTURE LAYOUT WILDLIFE PROTECTION MEASURES

- Implementing fugitive dust control measures
- Limit parking to disturbed areas as much as possible

DRILLING AND PRODUCTION OPERATION WILDLIFE PROTECTION MEASURES

- Reduce visits to well-sites through remote monitoring (i.e. SCADA) and the use of multifunction contractors, where practicable.
- Install exclusionary device to prevent bird and other wildlife access to equipment stacks, vents and openings.
- Establish company guidelines to minimize wildlife mortality from vehicle collision on roads.

FLUID PIT/POND WILDLIFE PROTECTION MEASURES

- Install and maintain adequate measures to exclude all types of wildlife (e.g., big game and birds) from all fluid pits/ponds with fencing, flagging and other appropriate exclusion measures). BBC currently installs 6' wildlife proof fences on all pits and freshwater ponds with free liquids. In addition, BBC will install bird netting over "inactive" pits with free liquids after 30 days of inactivity.

INVASIVE/NON-NATIVE VEGETATION CONTROL

- Educate employees and contractors about noxious and invasive weed issues.

RESTORATION, RECLAMATION AND ABANDONMENT

- Avoid aggressive non-native grasses and shrubs in mule deer and elk habitat restorations.
- Revegetate with seed mixtures that are of the surface owner's preference that are compatible with both livestock and wildlife.

S/AR: SATISFACTORY 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: 211382 Type: WELL API Number: 045-07142 Status: PR Insp. Status: PR

**Producing Well**

Comment: Plunger lift

Facility ID: 258927 Type: WELL API Number: 045-07669 Status: PR Insp. Status: PR

**Producing Well**

Comment: Plunger lift

Facility ID: 425855 Type: WELL API Number: 045-21094 Status: PR Insp. Status: DG

**Well Drilling**

**Rig:** Rig Name: \_\_\_\_\_ 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: \_\_\_\_\_ Semi-Closed Loop: \_\_\_\_\_  
 Multi-Well: \_\_\_\_\_ Disposal Location: \_\_\_\_\_

**Comment:**

Surface casing set, No drilling rig location

**Workover**

Comment: production numbers are being posted

Facility ID: 425856 Type: WELL API Number: 045-21095 Status: PR Insp. Status: DG

**Well Drilling**

**Rig:** Rig Name: \_\_\_\_\_ 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: \_\_\_\_\_ Semi-Closed Loop: \_\_\_\_\_  
 Multi-Well: \_\_\_\_\_ Disposal Location: \_\_\_\_\_

**Comment:**

Surface casing set, No drilling rig location

**Workover**

Comment: production numbers are being posted

Facility ID: 425858 Type: WELL API Number: 045-21096 Status: DG Insp. Status: DG

**Well Drilling**

**Rig:** Rig Name: \_\_\_\_\_ 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: \_\_\_\_\_ Semi-Closed Loop: \_\_\_\_\_  
Multi-Well: \_\_\_\_\_ Disposal Location: \_\_\_\_\_

**Comment:**

Surface casing set, No drilling rig location

**Workover**

Comment: production numbers are being posted

Facility ID: 425859 Type: WELL API Number: 045-21097 Status: PR Insp. Status: DG

**Well Drilling**

**Rig:** Rig Name: \_\_\_\_\_ 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: \_\_\_\_\_ Semi-Closed Loop: \_\_\_\_\_  
Multi-Well: \_\_\_\_\_ Disposal Location: \_\_\_\_\_

**Comment:**

Surface casing set, No drilling rig location

**Workover**

Comment: production numbers are being posted

**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: HAY MEADOW, IRRIGATED, OTHER

Comment:

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? 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: HAY MEADOW, IRRIGATED, OTHER

Reminder:

Inspector Name: Murray, Richard

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
		Culverts	Pass			
		Ditches	Pass			
Rip Rap	Pass					
		Gravel	Pass			
Gravel	Pass					
Berms	Pass					

S/A/V: SATISFACTOR Corrective Date: \_\_\_\_\_  
Y \_\_\_\_\_

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

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

**Pits:**  NO SURFACE INDICATION OF PIT