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

FIELD INSPECTION FORM

Inspection Date: 09/12/2016
Document Number: 666802548
Overall Inspection: SATISFACTORY

Location Identifier	Facility ID	Loc ID	Inspector Name:	On-Site Inspection	2A Doc Num:
	420318	420296	Murray, Richard	☐	

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@vnrllc.com	Sr. Production Foreman
Ghan, Scott		sghan@vnrllc.com	Sr. EH&S

Compliance Summary:

QtrQtr: SWNE Sec: 21 Twp: 6S Range: 92W

Insp. Date	Doc Num	Insp. Type	Insp Status	Satisfactory /Action Required	PA P/F/I	Pas/Fail (P/F)	Violation (Y/N)
05/29/2015	666801000	PR	PR	SATISFACTORY			No

Inspector Comment:

Related Facilities:

Facility ID	Type	Status	Status Date	Well Class	API Num	Facility Name	Insp Status	
420317	WELL	PR	04/18/2012	GW	045-20119	CBS 31C-21-692	PR	☒
420318	WELL	PR	03/23/2012	GW	045-20120	CBS 32B-21-692	PR	☒
420319	WELL	PR	04/18/2012	GW	045-20121	CBS 41C-21-692	PR	☒
420320	WELL	PR	04/18/2012	GW	045-20122	CBS 31B-21-692	PR	☒
420321	WELL	PR	04/18/2012	GW	045-20123	CBS 41D-21-692	PR	☒
420322	WELL	PR	03/22/2012	GW	045-20124	CBS 41B-21-692	PR	☒
420323	WELL	PR	04/18/2012	GW	045-20125	CBS 31D-21-692	PR	☒
420324	WELL	PR	03/23/2012	GW	045-20126	CBS 42D-21-692	PR	☒
420325	WELL	PR	03/22/2012	GW	045-20127	CBS 32D-21-692	PR	☒
420326	WELL	PR	03/23/2012	GW	045-20128	CBS 42B-21-692	PR	☒

Inspector Name: Murray, Richard

Equipment: Location Inventory

Special Purpose Pits:		Drilling Pits:	1	Wells:	10	Production Pits:	
Condensate Tanks:	4	Water Tanks:	2	Separators:	3	Electric Motors:	
Gas or Diesel Mortors:		Cavity Pumps:		LACT Unit:		Pump Jacks:	
Electric Generators:		Gas Pipeline:	1	Oil Pipeline:		Water Pipeline:	2
Gas Compressors:		VOC Combustor:	1	Oil Tanks:		Dehydrator Units:	
Multi-Well Pits:		Pigging Station:		Flare:		Fuel Tanks:	

Location

Signs/Marker:

Type	Satisfactory/Action Required	Comment	Corrective Action	CA Date
BATTERY	SATISFACTORY	AIRS ID 045-2245-001		

Emergency Contact Number (S/AR): SATISFACTORY Corrective Date:

Comment:

Corrective Action:

Spills:

Type	Area	Volume	Corrective action	CA Date

☐ Multilple Spills and Releases?

Equipment:

Type: Plunger Lift	# 10	Satisfactory/Action Required:	SATISFACTORY
Comment			
Corrective Action			Date:
Type: Horizontal Heated Separator	# 10	Satisfactory/Action Required:	SATISFACTORY
Comment			
Corrective Action			Date:
Type: Gas Meter Run	# 0	Satisfactory/Action Required:	SATISFACTORY
Comment			
Corrective Action			Date:
Type: Emission Control Device	# 1	Satisfactory/Action Required:	SATISFACTORY
Comment			
Corrective Action			Date:
Type: Ancillary equipment	# 2	Satisfactory/Action Required:	SATISFACTORY
Comment	Chemical units at wellhead		
Corrective Action			Date:

Tanks and Berms: ☐ New Tank Tank ID:

Contents	#	Capacity	Type	SE GPS
PRODUCED WATER	0			,

S/AR	SATISFACTORY	Comment:	

Corrective Action:		Corrective Date:	

Paint

Condition	

Other (Content) _____

Other (Capacity) _____

Other (Type) _____

Berms

Type	Capacity	Permeability (Wall)	Permeability (Base)	Maintenance

Corrective Action		Corrective Date	
Comment			

Tanks and Berms: ☐ New Tank Tank ID: _____

Contents	#	Capacity	Type	SE GPS
OTHER	0			,

S/AR	SATISFACTORY	Comment:	

Corrective Action:		Corrective Date:	

Paint

Condition	

Other (Content) _____

Other (Capacity) _____

Other (Type) _____

Berms

Type	Capacity	Permeability (Wall)	Permeability (Base)	Maintenance

Corrective Action		Corrective Date	
Comment			

Tanks and Berms: ☐ New Tank Tank ID: _____

Contents	#	Capacity	Type	SE GPS
CONDENSATE	6	500 BBLS	STEEL AST	39.514411,-107.670815

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 Sufficient	Adequate

Corrective Action		Corrective Date	
Comment			

Venting:

Yes/No	YES
Comment	Bradenhead valves open

Flaring:

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

Predrill

Location ID: 420318

Lease Road Adeq.: Pads: Soil Stockpile:

S/AR:

Corrective Action: Date: CDP Num.:

Form 2A COAs:

Group	User	Comment	Date
OGLA	kubeczkod	Location is in a sensitive area because of proximity to a domestic water well and shallow groundwater; therefore production, completion, or frac pits (if constructed) must be lined.	09/29/2010
OGLA	kubeczkod	No portion of any pit that will be used to hold liquids shall be constructed on fill material, unless the pit and fill slope are designed and subject to review and approval by the director prior to construction of the pit. The construction and lining of the pit shall be supervised by a professional engineer or their agent. The entire base of the pit must be in cut.	09/29/2010
OGLA	kubeczkod	Any pit containing fluids (if constructed) must be lined or closed loop system (which Bill Barrett has already indicated on the Form 2A) must be implemented during drilling.	09/29/2010
OGLA	kubeczkod	The access road will be constructed as to not allow any sediment to migrate from the access road to nearby surface water or any drainages leading to surface water.	09/29/2010
OGLA	kubeczkod	Location is in a sensitive area because of proximity to surface water; therefore, operator must ensure 110 percent secondary containment for any volume of fluids contained at well site during drilling and completion operations; including, but not limited to, construction of a berm or diversion dike, diversion/collection trenches within and/or outside of berms/dikes, site grading, or other comparable measures (i.e., BMPs associated with stormwater management) sufficiently protective of the nearby surface water. If fluids are conveyed via pipeline, operator must implement best management practices to contain any unintentional release of fluids.	09/29/2010
OGLA	kubeczkod	Operator must implement best management practices to contain any unintentional release of fluids.	09/29/2010

OGLA	kubeczkod	The moisture content of any drill cuttings in a cuttings pit, trench, or pile shall be as low as practicable to prevent accumulation of liquids greater than de minimis amounts. At the time of closure, the drill cuttings must also meet the applicable standards of table 910-1.	09/29/2010
OGLA	kubeczkod	Location is in a sensitive area because of proximity to a domestic water well and shallow groundwater; therefore either a lined drilling pit or closed loop system (which Bill Barrett has already indicated on the Form 2A) must be implemented.	09/29/2010

S/AR: SATISFACTORY **Comment:** No drilling or completions being performed at time of inspection, No visual sign of pits or cuttings

CA: **Date:**

Wildlife BMPs:

BMP Type	Comment
Wildlife	BBC WILDLIFE BEST MANAGEMENT PRACTICES GENERAL WILDLIFE AND EVIRONMENTAL 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. • Bear proof dumpsters and trash receptacles for food-related trash at all facilities that generate such trash will be installed and utilized INFRASTRUCTURE LAYOUT WILDLIFE PROTECTION MEASUIRES • 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.

Drilling/Completion Operations	BBC GENERAL PRACTICES NOTIFICATIONS • Proper notifications required by COGCC regulations or policy memos will be adhered to TRENCHES/PITS/TEMPORARY FRAC TANKS • Unlined pits will not be constructed on fill material. • Drill cuttings from the wellbore will be directed into a lined and bermed surface containment. Any free liquids accumulated in the containment would be removed as soon as practicable. • 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. • 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. • 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. • 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. o Circle B Land 33A-35-692SWD, API# 05-045-18493, UIC# 159277 o GGU Rodreick #21B-31-691 SWD, API# 05-045-13803, UIC# 159176 o Specialty #13A-28-692 SWD, API# 05-045-14054, UIC# 159212 o Scott 41D-36-692 SWD, API# 05-045-11169, UIC# 159159 • 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.

Storm Water/Erosion Control	BBC STORM WATER AND SPILL CONTROL PRACTICES GENERAL • Utilize diking and other forms of containment and diversions around tanks, drums, chemicals, liquids, pits, impoundments, or well pads • Use drip pans, sumps, or liners where appropriate • Limit the amount of land disturbed during construction of pad, access road, and facilities • Employ spill response plan (SPCC) for all facilities • Dispose properly offsite any wastes fluids and other materials MATERIAL HANDLING, ACTIVITIES, PRACTICES AND STORM WATER DIVERSION • 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 • Material handling and spill prevention procedures and practices will be followed to help prohibit discharges to surface waters • Proper loading, and transportation procedures to be followed for all materials to and from locations EROSION CONTROL • Pad and access road to be designed to minimize erosion • Pad and access road to implement appropriate erosion control devices where necessary to minimize erosion • Routine inspections of sites and controls to be implemented with additions, repairs, and optimization to occur as necessary to minimize erosion SELF INSPECTION, MAINTENANCE, AND HOUSEKEEPING • All employees are trained in spill response, good housekeeping, material management practices, and procedures for equipment and container washing annually • Conduct internal storm water inspections per applicable stormwater regulations • Conduct routine informal inspections of all tanks and storage facilities at least weekly • All containment areas are to be inspected weekly or following a heavy rain event. • Any excessive precipitation accumulation within containment should be removed as appropriate and disposed of properly • All structural berms, dikes, and containment will be inspected periodically to ensure they are operating correctly SPILL RESPONSE • Spill response procedures as per the BBC field SPCC Plan VEHICLE & LOCATION PROCEDURES • Vehicles entering location are to be free of chemical, oil, mud, weeds, trash, and debris • Location to be treated to kill weeds and bladed when necessary Bill Barrett Corp. – CDPHE Stormwater Permit Number: COR-039752

S/AR: SATISFACTORY **Comment:** BMPs in place

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:	Type:	API Number:	Status:	Insp. Status:
420317	WELL	045-20119	PR	PR

Producing Well

Comment: Plunger lift

Facility ID:	Type:	API Number:	Status:	Insp. Status:
420318	WELL	045-20120	PR	PR

Producing Well

Comment: Plunger lift

Facility ID:	Type:	API Number:	Status:	Insp. Status:
420319	WELL	045-20121	PR	PR

Producing Well

Comment: Plunger lift

Facility ID:	Type:	API Number:	Status:	Insp. Status:
420320	WELL	045-20122	PR	PR

Producing Well

Comment: Plunger lift

Facility ID:	Type:	API Number:	Status:	Insp. Status:
420321	WELL	045-20123	PR	PR

Producing Well

Comment: Plunger lift

Facility ID:	Type:	API Number:	Status:	Insp. Status:
420322	WELL	045-20124	PR	PR

Producing Well

Comment: Plunger lift

Facility ID:	Type:	API Number:	Status:	Insp. Status:
420323	WELL	045-20125	PR	PR

Producing Well

Comment: Plunger lift

Facility ID:	Type:	API Number:	Status:	Insp. Status:
420324	WELL	045-20126	PR	PR

Producing Well

Comment: Plunger lift

Facility ID:	Type:	API Number:	Status:	Insp. Status:
420325	WELL	045-20127	PR	PR

Producing Well

Comment: Plunger lift

Facility ID: 420326 Type: WELL API Number: 045-20128 Status: PR Insp. Status: PR

Producing Well

Comment: Plunger lift

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): 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: IMPROVED PASTURE

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: IMPROVED PASTURE

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
		Culverts	Pass			
Berms	Pass					
Rip Rap	Pass					
Gravel	Pass					
		Gravel	Pass			
Seeding	Pass					
Sediment Traps	Pass					

		Ditches	Pass			

S/A/V: SATISFACTORY Corrective Date:

Comment:

CA:

Pits: ☒ NO SURFACE INDICATION OF PIT