Inspector Name: BURGER, CRAIG

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

| DE | ET | OE | ES |
|---|---|---|---|
| | | | |

Inspection Date: 03/29/2013

Document Number: 670200302

Overall Inspection: Satisfactory

| Location Identifier | Facility ID | Loc ID | Inspector Name: | On-Site Inspection | 2A Doc Num: |
|---|---|---|---|---|---|
| | 420319 | 420296 | BURGER, CRAIG | ☐ | |

**Operator Information:**

OGCC Operator Number: 10071 Name of Operator: BARRETT CORPORATION* BILL

Address: 1099 18TH ST STE 2300

City: DENVER State: CO Zip: 80202

**Contact Information:**

| Contact Name | Phone | Email | Comment |
|---|---|---|---|
| Kellerby, Shaun | | Shaun.Kellerby@state.co.us | NW Field Supervisor |
| Axelson, Aaron | | aaxelson@billbarrettcorp.com | Production Foreman |
| Merry, Jesse | | jmerry@billbarrettcorp.com | Area Superintendent |

**Compliance Summary:**

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

| Insp. Date | Doc Num | Insp. Type | Insp Status | Satisfactory /Unsatisfactory | PA P/F/I | Pas/Fail (P/F) | Violation (Y/N) |
|---|---|---|---|---|---|---|---|
| 11/09/2011 | 200327949 | CC | DG | S | | | N |

**Inspector Comment:**

**Related Facilities:**

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

**Equipment:** Location Inventory

Inspector Name: BURGER, CRAIG

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 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/Unsatisfactory | Comment | Corrective Action | CA Date |
|---|---|---|---|---|
| TANK LABELS/PLACARDS | Satisfactory | | | |
| BATTERY | Satisfactory | | | |
| WELLHEAD | Satisfactory | | | |

Emergency Contact Number: (S/U/V) Satisfactory Corrective Date:

Comment:

Corrective Action:

**Good Housekeeping:**

| Type | Satisfactory/Unsatisfactory | Comment | Corrective Action | CA Date |
|---|---|---|---|---|
| TRASH | Unsatisfactory | Minor amount of trash in wellhead cellars. | Clean up. | 04/19/2013 |

**Spills:**

| Type | Area | Volume | Corrective action | CA Date |
|---|---|---|---|---|
| Lube Oil | WELLHEAD | <= 5 bbls | Some minor stained gravel and soil at wellheads needs to be cleaned up. | 04/19/2013 |

☐ Multilple Spills and Releases?

**Fencing/:**

| Type | Satisfactory/Unsatisfactory | Comment | Corrective Action | CA Date |
|---|---|---|---|---|
| SEPARATOR | Satisfactory | wire fence | | |
| WELLHEAD | Satisfactory | cattle panel | | |
| IGNITOR/COMBUSTOR | Satisfactory | wire fence | | |

**Equipment:**

| Type | # | Satisfactory/Unsatisfactory | Comment | Corrective Action | CA Date |
|---|---|---|---|---|---|
| Pig Station | 1 | Satisfactory | | | |
| Bird Protectors | 9 | Satisfactory | | | |
| Plunger Lift | 10 | Satisfactory | | | |
| Horizontal Heated Separator | 10 | Satisfactory | | | |
| Deadman # & Marked | 10 | Satisfactory | | | |
| Gathering Line | 1 | Satisfactory | | | |
| Ancillary equipment | 2 | Satisfactory | Descaler units. | | |

| | | | | | |
|---|---|---|---|---|---|
| Gas Meter Run | 3 | Satisfactory | | | |
| Emission Control Device | 1 | Satisfactory | | | |

**Facilities:** ☐ New Tank Tank ID: _____

| Contents | # | Capacity | Type | SE GPS |
|---|---|---|---|---|
| PRODUCED WATER | 1 | 100 BBLS | STEEL AST | , |

| S/U/V: | Satisfactory | Comment: | |
|---|---|---|---|

| Corrective Action: | | Corrective Date: | |
|---|---|---|---|

Paint

| Condition | Adequate |
|---|---|

Other (Content) _____

Other (Capacity) _____

Other (Type) _____

Berms

| Type | Capacity | Permeability (Wall) | Permeability (Base) | Maintenance |
|---|---|---|---|---|
| Earth | Adequate | Walls Sufficent | Base Sufficient | Adequate |

| Corrective Action | | Corrective Date | |
|---|---|---|---|
| Comment | HDPE liner | | |

**Facilities:** ☐ New Tank Tank ID: _____

| Contents | # | Capacity | Type | SE GPS |
|---|---|---|---|---|
| CONDENSATE | 2 | 500 BBLS | STEEL AST | , |

| S/U/V: | Satisfactory | Comment: | same berm as heated tanks |
|---|---|---|---|

| Corrective Action: | | Corrective Date: | |
|---|---|---|---|

Paint

| Condition | Adequate |
|---|---|

Other (Content) _____

Other (Capacity) _____

Other (Type) _____

Berms

| Type | Capacity | Permeability (Wall) | Permeability (Base) | Maintenance |
|---|---|---|---|---|
| | | | | |

| Corrective Action | | Corrective Date | |
|---|---|---|---|
| Comment | | | |

Inspector Name: BURGER, CRAIG

**Facilities:** ☐ New Tank Tank ID: _____

| Contents | # | Capacity | Type | SE GPS |
|---|---|---|---|---|
| CONDENSATE | 4 | 500 BBLS | HEATED STEEL AST | 39.514320,-107.670550 |

| S/U/V: | 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 | Comment |
|---|---|
| YES | bradenheads venting |

**Flaring:**

| Type | Satisfactory/Unsatisfactory | Comment | Corrective Action | CA Date |
|---|---|---|---|---|
| Ignitor/Combustor | Satisfactory | | | |

**Predrill**

Location ID: 420296

**Site Preparation:**

Lease Road Adeq.: _____ Pads: _____ Soil Stockpile: _____

Corrective Action: _____ Date: _____ CDP Num.: _____

**Form 2A COAs:**

| Group | User | Comment | Date |
|---|---|---|---|
| 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 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 |

| | | | |
|---|---|---|---|
| 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 | 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 a domestic water well and shallow groundwater; therefore production, completion, or frac pits (if constructed) must be lined. | 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 |

**Comment:** No pits or drilling activity on site.

**CA:** **Date:**

**Wildlife BMPs:**

| BMP Type | Comment |
|---|---|
| Wildlife | BBC WILDLIFE BEST MANAGEMENT PRACTICES<br><br>GENERAL WILDLIFE AND EVIRONMENTAL PROTECTION MEASURES<br><br>• Establish policies to protect wildlife (e.g., no poaching, no firearms, no dogs on location, no feeding of wildlife, etc.)<br>• Promptly report spills that affect wildlife to the Water Quality Control Division of CDPHE and CDOW<br>• Avoid location staging, refueling, and storage areas within 300 feet, of any reservoir, lake, wetland, or natural perennial or seasonal flowing stream or river.<br>• Bear proof dumpsters and trash receptacles for food-related trash at all facilities that generate such trash will be installed and utilized<br><br>INFRASTRUCTURE LAYOUT WILDLIFE PROTECTION MEASUIRES<br><br>• Implementing fugitive dust control measures<br>• Limit parking to disturbed areas as much as possible<br><br>DRILLING AND PRODUCTION OPERATION WILDLIFE PROTECTION MEASURES<br><br>• Reduce visits to well-sites through remote monitoring (i.e. SCADA) and the use of multifunction contractors, where practicable.<br>• Install exclusionary device to prevent bird and other wildlife access to equipment stacks, vents and openings.<br>• Establish company guidelines to minimize wildlife mortality from vehicle collision on roads.<br><br>FLUID PIT/POND WILDLIFE PROTECTION MEASURES<br><br>• 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.<br><br>INVASIVE/NON-NATIVE VEGETATION CONTROL<br>• Educate employees and contractors about noxious and invasive weed issues.<br><br>RESTORATION, RECLAMATION AND ABANDONMENT<br><br>• Avoid aggressive non-native grasses and shrubs in mule deer and elk habitat restorations.<br>• 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<br><br>NOTIFICATIONS<br>• Proper notifications required by COGCC regulations or policy memos will be adhered to<br><br>TRENCHES/PITS/TEMPORARY FRAC TANKS<br><br>• Unlined pits will not be constructed on fill material.<br>• 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.<br>• 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.<br>• 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.<br>• 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.<br>• 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.<br>o Circle B Land 33A-35-692SWD, API# 05-045-18493, UIC# 159277<br>o GGU Rodreick #21B-31-691 SWD, API# 05-045-13803, UIC# 159176<br>o Specialty #13A-28-692 SWD, API# 05-045-14054, UIC# 159212<br>o Scott 41D-36-692 SWD, API# 05-045-11169, UIC# 159159<br>• 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<br><br>GENERAL<br>• Utilize diking and other forms of containment and diversions around tanks, drums, chemicals, liquids, pits, impoundments, or well pads<br>• Use drip pans, sumps, or liners where appropriate<br>• Limit the amount of land disturbed during construction of pad, access road, and facilities<br>• Employ spill response plan (SPCC) for all facilities<br>• Dispose properly offsite any wastes fluids and other materials<br><br>MATERIAL HANDLING, ACTIVITIES, PRACTICES AND STORM WATER DIVERSION<br>• 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<br>• Material handling and spill prevention procedures and practices will be followed to help prohibit discharges to surface waters<br>• Proper loading, and transportation procedures to be followed for all materials to and from locations<br><br>EROSION CONTROL<br><br>• Pad and access road to be designed to minimize erosion<br>• Pad and access road to implement appropriate erosion control devices where necessary to minimize erosion<br>• Routine inspections of sites and controls to be implemented with additions, repairs, and optimization to occur as necessary to minimize erosion<br><br>SELF INSPECTION, MAINTENANCE, AND HOUSEKEEPING<br><br>• All employees are trained in spill response, good housekeeping, material management practices, and procedures for equipment and container washing annually<br>• Conduct internal storm water inspections per applicable stormwater regulations<br>• Conduct routine informal inspections of all tanks and storage facilities at least weekly<br>• All containment areas are to be inspected weekly or following a heavy rain event.<br>• Any excessive precipitation accumulation within containment should be removed as appropriate and disposed of properly<br>• All structural berms, dikes, and containment will be inspected periodically to ensure they are operating correctly<br><br>SPILL RESPONSE<br><br>• Spill response procedures as per the BBC field SPCC Plan<br><br>VEHICLE & LOCATION PROCEDURES<br><br>• Vehicles entering location are to be free of chemical, oil, mud, weeds, trash, and debris<br>• Location to be treated to kill weeds and bladed when necessary<br><br>Bill Barrett Corp. – CDPHE Stormwater Permit Number: COR-039752 |

**Comment:** Electronic well monitoring in place. Bird protection in place. Reclamation not complete.

**CA:** **Date:**

**Stormwater:**

| Erosion BMPs | Present | Other BMPs | Present |
|---|---|---|---|
| | | | ` |

Corrective Action: Date:

Comments: Erosion BMPs:

Other BMPs:

**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. Braden vented to produced water tank. Cellar contains standing water that should be removed.

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

**Producing Well**

Comment: Plunger lift.

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

**Waste Management:**

| Type | Management | Condition | Comment | GPS (Lat) | (Long) |
|---|---|---|---|---|---|
| Oily Soil | Piles | Adequate | Pile of soil on HDPE lined and bermed area. | 39.514900 | -107.671190 |

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: Grading of reclamation area not completed.

1003a. Debris removed? Pass CM

CA CA Date

Inspector Name: BURGER, CRAIG

Waste Material Onsite? In CM

CA CA Date

Unused or unneeded equipment onsite? Pass CM

CA CA Date

Pit, cellars, rat holes and other bores closed? In CM

CA CA Date

Guy line anchors removed? CM

CA CA Date

Guy line anchors marked? Pass CM

CA CA Date

1003b. Area no longer in use? In 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 Multi-Well Location

Inspector Name: BURGER, CRAIG

| **Storm Water:** | | | | | | |
|---|---|---|---|---|---|---|
| Loc Erosion BMPs | BMP Maintenance | Lease Road Erosion BMPs | Lease BMP Maintenance | Chemical BMPs | Chemical BMP Maintenance | Comment |
| Waddles | Pass | | | | | |
| Ditches | Pass | Compaction | Pass | | | |
| Culverts | Pass | Ditches | Pass | | | |
| Berms | Pass | Check Dams | Pass | MHSP | Pass | |
| Blankets | Pass | Culverts | Pass | | | |
| Rip Rap | Pass | | | | | |
| Gravel | Pass | | | | | |

S/U/V: Satisfactory Corrective Date:

Comment: BMP maintenance on access road has occurred since last inspection in area. Some erosion on cut slopes occurring.
Some erosion of cut slopes on site occurring where erosion blanket is not present.

CA: