FORM INSP Rev 05/11

# State of Colorado
# Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80205 Phone: (303) 894-2100 Fax: (303) 894-2109

## FIELD INSPECTION FORM

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

Inspection Date: 11/09/2011

Document Number: 663800029

Overall Inspection: Satisfactory

| Location Identifier | API Number | Facility ID | Loc ID | Tracking Type |
|---|---|---|---|---|
| | 045-20128 | 420326 | 420296 | |

Facility Name: CBS 42B-21-692 Inspector Name: LONGWORTH, MIKE

**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 |
|---|---|---|---|
| Henderson, Josh | (970) 876-1959 | jhenderson@billbarrettcorp.com | Drilling |
| Ghan, Scott | (970) 876-1959 | sghan@billbarrettcorp.com | Environmental |

**Compliance Summary:**

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

**Inspector Comment:**

**Related Facilities:**

| Facility ID | Type | Status | Status Date | Well Class | API Num |
|---|---|---|---|---|---|
| 420319 | WELL | XX | 11/13/2010 | | 045-20121 |
| 420320 | WELL | XX | 11/13/2010 | | 045-20122 |
| 420321 | WELL | XX | 11/13/2010 | | 045-20123 |
| 420323 | WELL | XX | 11/13/2010 | | 045-20125 |
| 420326 | WELL | XX | 11/13/2010 | | 045-20128 |

**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

**Lease Road:**

| Type | Satisfactory/Unsatisfactory | comment | Corrective Action | Date |
|---|---|---|---|---|
| ADEQ | Satisfactory | | | |

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

Inspector Name: LONGWORTH, MIKE

Comment:

Corrective Action:

**Good Housekeeping:**

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

**Spills:**

| Type | Area | Volume | Corrective action | CA Date |
|---|---|---|---|---|

☐ Multilple Spills and Releases?

**Venting:**

| Yes/No | Comment |
|---|---|
| NO | |

**Flaring:**

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

**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 | 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 | Initiated/Completed OGLA Form 2A review on 05-11-11 by Dave Kubeczko; previously reviewed and approved From 2A#400070465; same COAs from original permit apply to this permit; fluid containment, spill/release BMPs, lined pits/closed loop, cuttings low moisture content; passed by CDOW on 06-02-11 with operator submitted BMPs (with permit application) and recommendation of pit fencing/netting acceptable; passed OGLA Form 2A review on 07-09-11 by Dave Kubeczko; fluid containment, spill/release BMPs, lined pits/closed loop, cuttings low moisture content COAs. | 05/11/2011 |
| OGLA | kubeczkod | Operator must implement best management practices to contain any unintentional release of fluids. | 09/29/2010 |
| DOW | warrenm | The BMPs as submitted by the operator are applicable to the site.<br><br>by Michael Warren on Friday, Nobember 5, 2010 at 1:55 P.M. | 11/05/2010 |
| Permit | garrisop | The Exception Location Request Letter and Waiver is attached to the form 2's. | 10/19/2010 |
| Permit | yokleyb | Received a copy of submitted form 1A. BY | 05/11/2011 |
| OGLA | kubeczkod | Initiated/Completed OGLA Form 2A review on 09-29-10 by Dave Kubeczko; requested clarifications and acknowledgement of fluid containment, spill/release BMPs, lined pits/closed loop, all pits lined, no pit in fill, cuttings low moisture, access road sediment control COAs from operator on 09-29-10; received clarifications and acknowledgement of COAs from operator on 09-?-10; passed by CDOW on 11-05-10, with operator submitted (with permit application) BMPs acceptable; passed OGLA Form 2A review on 11-08-10 by Dave Kubeczko; fluid containment, spill/release BMPs, lined pits/closed loop, all pits lined, no pit in fill, cuttings low moisture, access road sediment control COAs. | 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 |
| Permit | freemans | Back to draft for the following: Location & Ref Area Pictures not dated; Multi well plan sideways; Needs a plugging bond section I; and an answer to Tab III, #2 (construction) Will a closed loop system be used? | 09/28/2010 |
| 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 |
| DOW | warrenm | The drilling pit must be fenced and netted per Rule 902.D<br><br>Michael Warren on Thursday, June 2, 2011 at 11:08 A.M. | 06/02/2011 |
| Permit | belangep | Corrected and re-submitted; comment about closed loop and confirmed with opr/Elaine to answer yes to closed loop pull down question section III | 09/29/2010 |
| Permit | yokleyb | Mary Pobuda is not a designated agent. Emailed Mary to request she get that taken care of. Ready to pass completeness when form 1A is submitted. BY | 05/11/2011 |

**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. |

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|---|---|
| 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 |

**Stormwater:**

**Comment:** _____

**Staking:**

**On Site Inspection (305):**

Surface Owner Contact Information:

Name: _____ Address: _____

Phone Number: _____ Cell Phone: _____

Operator Rep. Contact Information:

Inspector Name: LONGWORTH, MIKE

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:

**Well**

Facility ID: 420319 API Number: 045-20121 Status: XX Insp. Status: DG

**Well Drilling**

**Rig:** Rig Name: ProPetro Pusher/Rig Manager: Casey Lauer

Permit Posted: Satisfactory Access Sign: Satisfactory

**Well Control Equipment:**

Pipe Ram: Blind Ram: Hydril Type:

Pressure Test BOP: Test Pressure PSI: Safety Plan:

**Drill Fluids Management:**

Lined Pit: Unlined Pit: YES Closed Loop: Semi-Closed Loop:

Multi-Well: Disposal Location:

Facility ID: 420320 API Number: 045-20122 Status: XX Insp. Status: DG

**Well Drilling**

**Rig:** Rig Name: PROPETRO Pusher/Rig Manager: CASEY LAUER

Permit Posted: Access Sign: Satisfactory

**Well Control Equipment:**

Pipe Ram: Blind Ram: Hydril Type:

Pressure Test BOP: Test Pressure PSI: Safety Plan:

**Drill Fluids Management:**

Lined Pit: Unlined Pit: YES Closed Loop: Semi-Closed Loop:

Multi-Well: Disposal Location:

Inspector Name: LONGWORTH, MIKE

Facility ID: 420321 API Number: 045-20123 Status: XX Insp. Status: DG

**Well Drilling**

**Rig:** Rig Name: PROPETRO Pusher/Rig Manager: CASSEY LAUER

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: YES Closed Loop: Semi-Closed Loop:

Multi-Well: Disposal Location:

Facility ID: 420323 API Number: 045-20125 Status: XX Insp. Status: DG

**Well Drilling**

**Rig:** Rig Name: PROPETRO Pusher/Rig Manager: CASEY LAUER

Permit Posted: Access Sign: Satisfactory

**Well Control Equipment:**

Pipe Ram: Blind Ram: Hydril Type:

Pressure Test BOP: Test Pressure PSI: Safety Plan:

**Drill Fluids Management:**

Lined Pit: Unlined Pit: YES Closed Loop: Semi-Closed Loop:

Multi-Well: Disposal Location:

Facility ID: 420326 API Number: 045-20128 Status: XX Insp. Status: DG

**Well Drilling**

**Rig:** Rig Name: PROPETRO Pusher/Rig Manager: CASEY LAUER

Permit Posted: Access Sign: Satisfactory

**Well Control Equipment:**

Pipe Ram: Blind Ram: Hydril Type:

Pressure Test BOP: Test Pressure PSI: Safety Plan:

**Drill Fluids Management:**

Lined Pit: Unlined Pit: YES Closed Loop: Semi-Closed Loop:

Multi-Well: Disposal Location:

**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 File:

Inspector Name: LONGWORTH, MIKE

**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: IMPROVED PASTURE

Comment:

1003a. Debris removed? _____ CM _____

CA _____ CA Date _____

Waste Material Onsite? _____ 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 removed? _____ 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:

**Final Reclamation/ Abandoned Location:**

Date Final Reclamation Started: _____ Date Final Reclamation Completed: _____

Inspector Name: LONGWORTH, MIKE

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

**Storm Water:**

| Loc Erosion BMPs | BMP Maintenance | Lease Road Erosion BMPs | Lease BMP Maintenance | Chemical BMPs | Chemical BMP Maintenance | Comment |
|---|---|---|---|---|---|---|