

**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



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Inspection Date:

09/13/2013

Document Number:

670200858

Overall Inspection:

Satisfactory**FIELD INSPECTION FORM**

Location Identifier	Facility ID	Loc ID	Inspector Name:	On-Site Inspection	2A Doc Num:
	<u>423320</u>	<u>423309</u>	<u>BURGER, CRAIG</u>	<input type="checkbox"/>	

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
Merry, Jesse		jmerry@billbarrettcorp.com	
Axelson, Aaron	(970) 876-1959	aaxelson@billbarrettcorp.com	Production Foreman

Compliance Summary:

QtrQtr: <u>Lot 2</u>		Sec: <u>30</u>	Twp: <u>6S</u>		Range: <u>91W</u>		
Insp. Date	Doc Num	Insp. Type	Insp Status	Satisfactory /Unsatisfactory	PA P/F/I	Pas/Fail (P/F)	Violation (Y/N)
02/10/2012	663800146	XX	WO	S			N

Inspector Comment:

Shared facilities located between these wells and the wells on location #418340. See location #418340 for production equipment.

Related Facilities:

Facility ID	Type	Status	Status Date	Well Class	API Num	Facility Name	
423312	WELL	PR	04/05/2012	GW	045-20730	GGU Kaufman 32A-30-691	<input checked="" type="checkbox"/>
423313	WELL	PR	04/04/2012	GW	045-20731	GGU Kaufman 12A-30-691	<input checked="" type="checkbox"/>
423314	WELL	PR	04/05/2012	GW	045-20732	GGU Kaufman 13D-30-691	<input checked="" type="checkbox"/>
423315	WELL	PR	04/04/2012	GW	045-20733	GGU Kaufman 12B-30-691	<input checked="" type="checkbox"/>
423316	WELL	PR	05/22/2012	GW	045-20734	GGU Kaufman 12D-30-691	<input checked="" type="checkbox"/>
423317	WELL	PR	05/22/2012	GW	045-20735	GGU Kaufman 11A-30-691	<input checked="" type="checkbox"/>
423318	WELL	PR	04/04/2012	GW	045-20736	GGU Kaufman 22C-30-691	<input checked="" type="checkbox"/>
423319	WELL	PR	05/01/2012	GW	045-20737	GGU Kaufman 21A-30-691	<input checked="" type="checkbox"/>
423320	WELL	PR	05/01/2012	GW	045-20738	GGU Kaufman 22D-30-691	<input checked="" type="checkbox"/>
423321	WELL	PR	05/22/2012	GW	045-20739	GGU Kaufman 11B-30-691	<input checked="" type="checkbox"/>
423322	WELL	PR	05/01/2012	GW	045-20740	GGU Kaufman 11C-30-691	<input checked="" type="checkbox"/>
423323	WELL	PR	04/04/2012	GW	045-20741	GGU Kaufman 32D-30-691	<input checked="" type="checkbox"/>

Equipment:Location Inventory

Inspector Name: BURGER, CRAIG

Special Purpose Pits: _____	Drilling Pits: <u>1</u>	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

Signs/Marker:

Type	Satisfactory/Unsatisfactory	Comment	Corrective Action	CA Date
WELLHEAD	Satisfactory			

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

Comment: _____

Corrective Action: _____

Spills:

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

Fencing:

Type	Satisfactory/Unsatisfactory	Comment	Corrective Action	CA Date
WELLHEAD	Satisfactory	cattle panel		

Equipment:

Type	#	Satisfactory/Unsatisfactory	Comment	Corrective Action	CA Date
Ancillary equipment	2	Satisfactory	descaler units		
Plunger Lift	12	Satisfactory			

Venting:

Yes/No	Comment
YES	bradenhead valves open

Flaring:

Type	Satisfactory/Unsatisfactory	Comment	Corrective Action	CA Date

Predrill

Location ID: 423309

Site Preparation:

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

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

Form 2A COAs:

Group	User	Comment	Date
OGLA	kubeczkod	<p>DRILLING COAs:</p> <p>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 meet the applicable standards of Table 910-1.</p> <p>The nearby downgradient hillside to east-southeast towards Gibson Gulch must be monitored for any day-lighting of drilling fluids throughout the drilling of the surface casing interval.</p> <p>A spill response trailer will be on location 24 hours a day, 7 days a week during construction, drilling, and completion operations to facilitate a timely response to any spills that may occur.</p> <p>Appropriate heavy equipment (e.g., a backhoe) will be staged at the location during all drilling and completion operations so that any emergency diversions or pits to contain spills can be built immediately upon discovery.</p> <p>An emergency spill response program that includes employee training, safety and maintenance provisions and current contact information for downstream Public Water System(s) located within fifteen (15) stream miles of the DCPS Operation, as well as the ability to notify any such downstream Public Water System(s) with an intake(s) within fifteen (15) stream miles downstream of the DCPS operations will be implemented during construction, drilling, and completion activities.</p> <p>In the event of a spill or release, the operator shall immediately implement the emergency response procedures in the above described emergency response program.</p> <p>All personnel working at the location during all drilling and completion operations will receive training on spill response and reporting. Documentation of this training will be maintained in BBC's Silt office.</p> <p>At a minimum, weekly spill prevention meetings will be held identifying staff responsibilities in order to provide a quick and effective response to a spill. Appropriate documentation will be maintained in BBC's Silt office.</p> <p>Operator will conduct daily inspections of equipment for leaks and equipment problems with appropriate documentation retained in BBC's Silt office. All equipment deficiencies shall be corrected. Daily monitoring should end approximately 30 days after well completion and/or after production has been stabilized; however, timely inspections should continue during the production phase.</p> <p>Operator will use adequately sized containment devices for all chemicals and/or hazardous materials stored or used on location.</p> <p>Operator will provide an increased testing frequency (at least every thirty (14) days) of blowout prevention equipment (BOPE) during drilling operations.</p>	04/18/2011

OGLA	kubeczkod	CONSTRUCTION COAs:	04/18/2011
		<p>Notify the COGCC Oil and Gas Location Assessment (OGLA) Specialist for Western Colorado (Dave Kubeczko; email dave.kubeczko@state.co.us) and the COGCC Field Inspection Supervisor for Northwest Colorado (Shaun Kellerby; email shaun.kellerby@state.co.us) 48 hours prior to start of construction.</p> <p>Operator will collect baseline and follow-up surface water samples as follows: Prior to drilling and when sufficient water is present in the stream, operator will collect baseline surface water data from immediately down gradient of the oil and gas location. Sampling will occur quarterly at low elevations and biannually at higher elevations. Follow-up surface water data will be collected by sampling the same location beginning in the 2011 calendar year, and to continue for 5 years. COGCC recommends that the water samples be analyzed for the following parameters: pH; alkalinity; specific conductance; major cations/anions (chloride, fluoride, sulfate, sodium); total dissolved solids (TDS); BTEX/DRO; TPH; PAH's (including benzo[a]pyrene); and metals (arsenic, barium, calcium, chromium, iron, magnesium, selenium).</p> <p>No portion of any pit that will be used to hold liquids shall be constructed within the 317B Internal (0 to 300 feet) or Intermediate (301 to 500 feet) Buffer Zones. No portion of any pit constructed to hold liquids within the External (501 to 2620 feet), shall be constructed on fill material, unless the pit and fill slope are designed and certified by a professional engineer, 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.</p> <p>No portion of any cuttings trench shall be constructed on fill material, nor within the 317B Internal Buffer Zone</p> <p>The access road will be constructed to prevent sediment migration from the access road to nearby surface water or any drainages leading to other nearby surface waters. Strategically apply fugitive dust control measures, including enforcing established speed limits, to reduce fugitive dust and coating of vegetation and deposition in water sources.</p> <p>Well pad and access road to the well pad will be gravel surfaced. Operator must install adequately sized culverts that cross any drainages leading to the stream. Operator must ensure 110 percent secondary containment for any potential volume of fluids that may be released from the pad/access road in the vicinity of all stream, intermittent stream, ditch, and drainage crossings.</p> <p>The location is in an area of high run-off/run-on potential from the proposed pad area to the west-southwest; therefore the pad shall be constructed as quickly as possible and appropriate BMPs need to be in place both during and after well pad construction, as well as during all drilling and well completion operations. Standard stormwater BMPs must be implemented at this location to insure compliance with CDPHE and COGCC requirements and to prevent any stormwater run-on and /or stormwater run-off. Slopes with potential for runoff should be stabilized immediately following pad construction. Operator shall construct a diversion ditch at the base of the fill slopes on the west, south, and east sides of the well pad, with this diversion ditch being sloped so that all water enters one or more detention basins.</p> <p>Because of proximity of the well pad to both nearby surface water and steep slopes to the west-southwest, operator will grade the well pad surface to slope away from the stream towards a central collection point on the well pad.</p>	

OGLA	kubeczko	<p>WATER RESOURCE (SURFACE WATER AND GROUNDWATER) PROTECTION COAs:</p> <p>Location is in a sensitive area because of its 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., best management practices (BMPs) associated with stormwater management) sufficiently protective of nearby surface water. Any berm constructed at the well pad location will be stabilized, inspected at regular intervals (at least every 14 days), and maintained in good condition.</p> <p>Operator must implement best management practices to contain any unintentional release of fluids, including any fluids conveyed via temporary surface pipelines.</p> <p>Location is in a sensitive area because of the potential for shallow groundwater; therefore either a lined drilling pit or closed loop system (which operator has already indicated on the Form 2A) must be implemented.</p> <p>Location is in a sensitive area because of the potential for shallow groundwater; therefore completion/production pits must be lined.</p>	04/18/2011
OGLA	kubeczko	<p>COMPLETION COAs:</p> <p>Operator will implement best management practices to contain any unintentional release of fluids, including any fluids conveyed via temporary surface pipelines or buried permanent pipelines.</p> <p>The completion/flowback fluids pit must be double-lined. The pit will also require a leak detection system (Rule 904.e).</p> <p>The completion/flowback fluids pit must be fenced. If the completion/flowback pit is not closed (either drained and/or backfilled) immediately after well completion, then operator must appropriately net the completion/flowback pit, in a timely manner, and maintain the fencing and netting until the pit is closed in accordance with Rule 905. Closure of Pits, and Buried or Partially Buried Produced Water Vessels.</p> <p>Flowback and stimulation fluids must be sent to tanks to allow the sand to settle out before the fluids can be placed into any pipeline or pit located on the well pad. The flowback and stimulation fluid tanks must be placed on the well pad in an area with additional downgradient perimeter berming. The area where flowback fluids will be stored/reused must be constructed to be sufficiently impervious to contain any spilled or released material (per Rule 604.a.(4)).</p> <p>Operator will submit a secondary and tertiary containment plan to be implemented during fracing operations via sundry notice Form 4 to the COGCC Oil and Gas Location Assessment (OGLA) Specialist for Western Colorado (Dave Kubeczko; email dave.kubeczko@state.co.us) for review and approval.</p> <p>Notify COGCC Oil and Gas Location Assessment (OGLA) Specialist for Western Colorado (Dave Kubeczko; email dave.kubeczko@state.co.us) and the COGCC Field Inspection Supervisor for Northwest Colorado (Shaun Kellerby; email shaun.kellerby@state.co.us) 48 hours prior to start of fracing operations.</p>	04/18/2011
OGLA	kubeczko	<p>PRODUCTION COAs:</p> <p>Interim reclamation shall begin during the first appropriate planting season following completion/testing of the last well; unless a determination is made that subsequent wells will be permitted and drilled. Reclamation practices will be subject to approval by the surface owner.</p> <p>Final reclamation shall begin during the first appropriate planting season following plugging, using practices approved by surface owner.</p>	04/18/2011

Comment:

Drilling, Completions and flowback finished. Not pits on location. Interim reclamation performed. Access road stormwater and erosion control BMP's in place.

CA: Date: **Wildlife BMPs:**

BMP Type	Comment
Wildlife	<p>WILDLIFE BEST MANAGEMENT PRACTICES</p> <p>GENERAL WILDLIFE AND ENVIRONMENTAL PROTECTION MEASURES:</p> <ul style="list-style-type: none"> – 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. <p>INFRASTRUCTURE LAYOUT WILDLIFE PROTECTION MEASURES:</p> <ul style="list-style-type: none"> – Implementing fugitive dust control measures – limit parking to disturber areas <p>DRILLING AND PRODUCTION OPERATION WILDLIFE PROTECTION MEASURES:</p> <ul style="list-style-type: none"> – Reduce visits to well-sites through remote monitoring (i.e. SCADA) and the use of multifunction contractors. – 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. <p>FLUID PIT/POND WILDLIFE PROTECTION MEASURES:</p> <ul style="list-style-type: none"> – 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 freshwater ponds. <p>INVASIVE/NON-NATIVE VEGETATION CONTROL:</p> <ul style="list-style-type: none"> – Educate employees and contractors about noxious and invasive weed issues. – <p>RESTORATION, RECLAMATION AND ABANDONMENT:</p> <ul style="list-style-type: none"> – 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.

<p>Storm Water/Erosion Control</p>	<p>STORM WATER BEST MANAGEMENT PRACTICES BILL BARRETT CORPORATION</p> <p>GENERAL BMPs</p> <ul style="list-style-type: none"> • Utilize diking and other forms of containment and diversions around tanks, drums, chemicals, liquids, pits, and impoundments • 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 for all facilities • Dispose properly offsite any wastes fluids and other materials <p>MATERIAL HANDLING, ACTIVITIES, PRACTICES AND STORM WATER DIVERSION</p> <ul style="list-style-type: none"> • 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 within containment area • Material handling and spill prevention procedures and practices will be followed to prohibit discharges to surface waters • Proper loading, and transportation procedures to be followed for all materials to and from locations <p>EROSION CONTROL</p> <ul style="list-style-type: none"> • 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 <p>SELF INSPECTION, MAINTANENCE, AND HOUSEKEEPING</p> <ul style="list-style-type: none"> • All employees are trained in spill response, good housekeeping, material management practices, and procedures for equipment and container washing at least once per year • Conduct internal storm water inspections at least semi-annually and within 24 hours of a heavy rain event • Conduct routine 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 and disposed of properly • All structural berms, dikes, and containment will be inspected periodically to ensure they are operating correctly • Minimum of an annual storm water BMP inspection and outcome report documenting status, including repairs <p>SPILL RESPONSE</p> <ul style="list-style-type: none"> • Follow spill response procedures • If spill occurs: <ul style="list-style-type: none"> o Safely stop the source of the spill immediately o Contain the spill until clean-up is complete o Cover spill with appropriate absorbent material o Keep the area well ventilated o Dispose of clean-up materials properly o Do not use emulsifier or dispersant <p>VEHICLE & LOCATION PROCEDURES</p> <ul style="list-style-type: none"> • 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 <p>Bill Barrett Corp. – CDPHE Stormwater Permit Number: CPR-039752</p>
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Comment: SCADA equipment on location. Bird protectors in place. Seeding occurred in reclamation area.

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: 423312 Type: WELL API Number: 045-20730 Status: PR Insp. Status: PR

Producing Well

Comment: plunger lift

Facility ID: 423313 Type: WELL API Number: 045-20731 Status: PR Insp. Status: PR

Producing Well

Comment: plunger lift

Facility ID: 423314 Type: WELL API Number: 045-20732 Status: PR Insp. Status: PR

Producing Well

Comment: plunger lift

Facility ID: 423315 Type: WELL API Number: 045-20733 Status: PR Insp. Status: PR

Producing Well

Comment: plunger lift

Facility ID: 423316 Type: WELL API Number: 045-20734 Status: PR Insp. Status: PR

Producing WellComment: Facility ID: 423317 Type: WELL API Number: 045-20735 Status: PR Insp. Status: PR**Producing Well**Comment: Facility ID: 423318 Type: WELL API Number: 045-20736 Status: PR Insp. Status: PR**Producing Well**Comment: Facility ID: 423319 Type: WELL API Number: 045-20737 Status: PR Insp. Status: PR**Producing Well**Comment: Facility ID: 423320 Type: WELL API Number: 045-20738 Status: PR Insp. Status: PR**Producing Well**Comment: Facility ID: 423321 Type: WELL API Number: 045-20739 Status: PR Insp. Status: PR**Producing Well**Comment: Facility ID: 423322 Type: WELL API Number: 045-20740 Status: PR Insp. Status: PR**Producing Well**Comment: Facility ID: 423323 Type: WELL API Number: 045-20741 Status: PR Insp. Status: PR**Producing Well**Comment: **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:

Inspector Name: BURGER, CRAIG

Emission Control Burner (ECB): Y

Comment: Shared tank battery and equipment with location to the north.

Pilot: ON Wildlife Protection Devices (fired vessels): YES

Reclamation - Storm Water - Pit

Interim Reclamation:

Date Interim Reclamation Started: Date Interim Reclamation Completed:

Land Use: RANGELAND

Comment:

1003a. Debris removed? Pass CM CA Date
Waste Material Onsite? Pass CM CA Date
Unused or unneeded equipment onsite? Pass CM CA Date
Pit, cellars, rat holes and other bores closed? Pass CM CA Date
Guy line anchors removed? CM CA Date
Guy line anchors marked? CM CA Date

1003b. Area no longer in use? Pass Production areas stabilized ? Pass

1003c. Compacted areas have been cross ripped? Pass

1003d. Drilling pit closed? Pass Subsidence over on drill pit? Pass

Cuttings management:

1003e. Areas no longer needed for drilling or subsequent operations for have been re-vegetated to 80% of pre-existing? In
Production areas have been stabilized? Pass 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? P

Comment:

Overall Interim Reclamation In Process

Final Reclamation/ Abandoned Location:

Date Final Reclamation Started: Date Final Reclamation Completed:

Final Land Use: RANGELAND

Reminder:

Comment:

Inspector Name: BURGER, CRAIG

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



Storm Water:

Loc Erosion BMPs	BMP Maintenance	Lease Road Erosion BMPs	Lease BMP Maintenance	Chemical BMPs	Chemical BMP Maintenance	Comment
Compaction	Pass	Ditches	Pass			
Berms	Pass	Check Dams	Pass	MHSP	Pass	
Seeding	Pass					
Hydro Mulch	Pass	Gravel	Pass			
Gravel	Pass	Compaction	Pass			

S/U/V: Satisfactory

Corrective Date:

Comment:

CA: