

**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



DE	ET	OE	ES
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Inspection Date:  
01/30/2015

Document Number:  
673900698

Overall Inspection:  
SATISFACTORY

**FIELD INSPECTION FORM**

Location Identifier	Facility ID	Loc ID	Inspector Name:	On-Site Inspection	2A Doc Num:
	<u>438204</u>	<u>438202</u>	<u>Rains, Bill</u>	<input type="checkbox"/>	

**Operator Information:**

OGCC Operator Number: 8960

Name of Operator: BONANZA CREEK ENERGY OPERATING COMPANY

Address: 410 17TH STREET SUITE #1400

City: DENVER State: CO Zip: 80202

- 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
Jones, Allen		jaj@bonanzacrk.com	send all Insp. to Allen

**Compliance Summary:**

QtrQtr: NWNW Sec: 33 Twp: 5N Range: 63W

**Inspector Comment:**

**Related Facilities:**

Facility ID	Type	Status	Status Date	Well Class	API Num	Facility Name	Insp Status	
438198	WELL	DG	10/09/2014		123-39902	North Platte 11-41-33HNB	PR	<input checked="" type="checkbox"/>
438199	WELL	DG	09/10/2014		123-39903	North Platte A-U-33HNB	PR	<input checked="" type="checkbox"/>
438200	WELL	DG	08/31/2014		123-39904	North Platte A-U-33HC	PR	<input checked="" type="checkbox"/>
438201	WELL	DG	09/19/2014		123-39905	North Platte A11-U41-33HNC	PR	<input checked="" type="checkbox"/>
438203	WELL	DG	09/29/2014		123-39906	North Platte 11-41-33HC	PR	<input checked="" type="checkbox"/>
438204	WELL	XX	07/21/2014		123-39907	North Platte B11-V41-33HNC	PR	<input checked="" type="checkbox"/>

**Equipment:**

Location Inventory

Special Purpose Pits: <u>      </u>	Drilling Pits: <u>      </u>	Wells: <u>7</u>	Production Pits: <u>      </u>
Condensate Tanks: <u>4</u>	Water Tanks: <u>7</u>	Separators: <u>7</u>	Electric Motors: <u>14</u>
Gas or Diesel Mortors: <u>7</u>	Cavity Pumps: <u>      </u>	LACT Unit: <u>2</u>	Pump Jacks: <u>7</u>
Electric Generators: <u>4</u>	Gas Pipeline: <u>      </u>	Oil Pipeline: <u>      </u>	Water Pipeline: <u>      </u>
Gas Compressors: <u>10</u>	VOC Combustor: <u>8</u>	Oil Tanks: <u>28</u>	Dehydrator Units: <u>1</u>
Multi-Well Pits: <u>      </u>	Pigging Station: <u>1</u>	Flare: <u>1</u>	Fuel Tanks: <u>      </u>

**Location**

<b>Signs/Marker:</b>				
Type	Satisfactory/Action Required	Comment	Corrective Action	CA Date
WELLHEAD	SATISFACTORY			
CONTAINERS	SATISFACTORY			
TANK LABELS/PLACARDS	SATISFACTORY			
BATTERY	SATISFACTORY			

Emergency Contact Number (S/A/V): SATISFACTORY Corrective Date: \_\_\_\_\_

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

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

<b>Spills:</b>				
Type	Area	Volume	Corrective action	CA Date
<input type="checkbox"/> Multiple Spills and Releases?				

<b>Equipment:</b>					
Type	#	Satisfactory/Action Required	Comment	Corrective Action	CA Date
VRU	2	SATISFACTORY			
Horizontal Heated Separator	6	SATISFACTORY			
Vertical Separator	7	SATISFACTORY			
Ancillary equipment	13	SATISFACTORY	OIL AND METH TANKS		
Plunger Lift	6	SATISFACTORY			
Compressor	3	SATISFACTORY			
Bird Protectors	12	SATISFACTORY			
Gas Meter Run	12	SATISFACTORY			
Emission Control Device	6	SATISFACTORY			
Gathering Line	3	SATISFACTORY			

**Facilities:**  New Tank Tank ID: \_\_\_\_\_

Contents	#	Capacity	Type	SE GPS
			CENTRALIZED PAD	,

S/A/V: \_\_\_\_\_ 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	

**Facilities:**       New Tank      Tank ID: \_\_\_\_\_

Contents	#	Capacity	Type	SE GPS
OTHER	1	<100 BBLS	PBV CONCRETE	40.361520,-104.448610

S/A/V: SATISFACTORY      Comment: \_\_\_\_\_

Corrective Action:	Corrective Date:
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Paint

Condition	Adequate
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Other (Content) \_\_\_\_\_

Other (Capacity) \_\_\_\_\_

Other (Type) \_\_\_\_\_

Berms

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

Corrective Action	Corrective Date
Comment	

**Facilities:**       New Tank      Tank ID: \_\_\_\_\_

Contents	#	Capacity	Type	SE GPS
PRODUCED WATER	2	OTHER	STEEL AST	,

S/A/V: SATISFACTORY      Comment: **750bbl TANKS**

Corrective Action:	Corrective Date:
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Paint

Condition	Adequate
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Other (Content) \_\_\_\_\_

Other (Capacity) \_\_\_\_\_

Other (Type) \_\_\_\_\_

Berms

Type	Capacity	Permeability (Wall)	Permeability (Base)	Maintenance

Corrective Action	Corrective Date
Comment	

**Facilities:**       New Tank      Tank ID: \_\_\_\_\_

Contents	#	Capacity	Type	SE GPS
CRUDE OIL	8	OTHER	STEEL AST	40.362110,-104.449880

S/A/V: SATISFACTORY      Comment: **750bbl TANKS**

Corrective Action:	Corrective Date:
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Paint

Condition	Adequate
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Other (Content) \_\_\_\_\_

Other (Capacity) \_\_\_\_\_

Other (Type) \_\_\_\_\_

**Berms**

Type	Capacity	Permeability (Wall)	Permeability (Base)	Maintenance
Metal	Adequate	Walls Sufficient	Base Sufficient	Adequate

Corrective Action	_____	Corrective Date	_____
Comment	_____		

**Venting:**

Yes/No	Comment
NO	_____

**Flaring:**

Type	Satisfactory/Action Required	Comment	Corrective Action	CA Date

**Predrill**

Location ID: 438204

**Site Preparation:**  
 Lease Road Adeq.: \_\_\_\_\_ Pads: \_\_\_\_\_ Soil Stockpile: \_\_\_\_\_

**S/AV:** \_\_\_\_\_  
 Corrective Action: \_\_\_\_\_ Date: \_\_\_\_\_ CDP Num.: \_\_\_\_\_

**Form 2A COAs:**

**S/AV:** \_\_\_\_\_ **Comment:** \_\_\_\_\_

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

**Wildlife BMPs:**

BMP Type	Comment
Drilling/Completion Operations	• Once in operation, M LVTs will be inspected daily and any deficiencies repaired as soon as practicable.
Pre-Construction	MLVTs will be constructed and operated in accordance with a design certified by a Colorado Licensed Professional Engineer.
Dust control	Oil and gas facilities and equipment will be operated in such a manner that odors and dust do not constitute a nuisance or hazard to public welfare. If drilling mud is to sit stagnant for any lengthy period of time, biocides will be added to prevent the build-up of nuisance odors. The location, the access road coming off of CR 50, and CR 50 will be watered, as needed, to prevent the formation of fugitive dust due to truck traffic and equipment operations. Additionally, exceptionally sandy locations will be plated with up to 4-inches of cohesive soils or Class V Roadbase. During frac'ing operations, dust control socks will be placed on the mountain movers/sand masters and storage bins to control the spread of fugitive silica dust. During hydraulic fracturing operations, a Sierra Frac Sand, LLC Total Dust Control System, or equivalent, will be implemented in order to control the release of fugitive dust from inspection hatches on top of the bulk storage movers, transfer belts, "T" or "V" belts leading to the blender hopper, and drop points throughout the activities of unloading, storing, transfer or conveying of sand used in hydraulic fracturing operations.

Noise mitigation	A noise study conducted by Behrens and Associates, Inc. has been conducted on the proposed drill rig for this location while the referenced rig was in full operation. The results of the noise study were used to model the drill rig at the proposed drilling location, relative to the residences located 590' and 630' North of the proposed well. As a result of the modeling, 32' high sound walls will be installed along the West, North, and East perimeter of the drilling location. Additionally, 16' high acoustical panels will be set along the West, North, and East perimeter of the mud pumps/boiler area.
Planning	Bonanza will develop a Contingency Plan specific to the location for any LVST leak or catastrophic failure of the tank integrity and resulting loss of fluid. The plan includes a notification process to the COGCC and local Emergency authority (municipality, county, or both) for any failure resulting in loss of fluid.  The Contingency Plan will be available to the COGCC upon request.
Drilling/Completion Operations	COGCC Rules 604.a and 605.a (2,3,5,6,7, and 8), as applicable to tank setbacks at the time of installation shall apply to the siting of MLVTs.
Drilling/Completion Operations	Should a failure of MLVT integrity occur, Bonanza will notify COGCC upon discovery, report the incident to COGCC on a Form 22-Accident Report within 10 days of discovery, and conduct a root cause analysis. The results of the root cause analysis will be reported to COGCC on a Sundry-Form 4 within 30 days of discovery of the failure.
Drilling/Completion Operations	Once in operation, M LVTs will be inspected daily and any deficiencies repaired as soon as practicable.
Construction	The following procedure describes BCEI standard construction practices for setting a partially buried pre-cast cement water vault and new tank battery construction. 1) The excavation will first be lined with 4" of clay or other low permeability soil. 2) A 30 mil liner will be installed on top of the low permeability soil. The 30 mil liner will be a contiguous liner which will underlay the entire tank battery. 3) The tank battery / water vault liner will be keyed into a galvanized steel containment ring installed surrounding the tank battery. 4) Sand bedding will be installed to protect the synthetic liner prior to placing equipment in the containment area.
Drilling/Completion Operations	• Bonanza will develop a Contingency Plan specific to the location for any LVST leak or catastrophic failure of the tank integrity and resulting loss of fluid. The plan includes a notification process to the COGCC and local Emergency authority (municipality, county, or both) for any failure resulting in loss of fluid.
Drilling/Completion Operations	• MLVTs shall not be located on non-engineered fill material. Subgrade preparation shall be verified by proof-rolling prior to MLVT installation.
Drilling/Completion Operations	MLVTs may only be utilized for the storage of freshwater. E&P wastes, including produced water, treated E&P wastes, and flowback from hydraulic fracturing operations will not be allowed.
Drilling/Completion Operations	• A minimum of 1 foot of freeboard will be maintained in all MLVTs.
Drilling/Completion Operations	Signs shall be posted on each MLVT to indicate contents are freshwater and that no E&P Waste fluids are allowed. Location and additional signage shall conform to Rule 210.
Drilling/Completion Operations	A minimum of 1 foot of freeboard will be maintained in all MLVTs.
Drilling/Completion Operations	• MLVTs will be constructed and operated in accordance with a design certified by a Colorado Licensed Professional Engineer.
Drilling/Completion Operations	MLVTs shall not be located on non-engineered fill material. Subgrade preparation shall be verified by proof-rolling prior to MLVT installation.
Drilling/Completion Operations	• Signs shall be posted on each MLVT to indicate contents are freshwater and that no E&P Waste fluids are allowed. Location and additional signage shall conform to Rule 210.
Drilling/Completion Operations	• COGCC Rules 604.a and 605.a (2,3,5,6,7, and 8), as applicable to tank setbacks at the time of installation shall apply to the siting of MLVTs.
Traffic control	Signage will be placed ahead of all intersections warning motorists of truck traffic entering/exiting the location.

Inspector Name: Rains, Bill

Drilling/Completion Operations	• Access to the tanks shall be limited to operational personnel.
Drilling/Completion Operations	To the extent practicable, site lighting will be directed downward and inward and shielded so as to avoid glare affecting vehicles travelling on CR65 and the residences located to the North.
Drilling/Completion Operations	• Bonanza will use only MLVTs supplied by Rockwater or other contractors that are knowingly complying with COGCC inspection, maintenance, and record keeping policies
Drilling/Completion Operations	• MLVTs may only be utilized for the storage of freshwater. E&P wastes, including produced water, treated E&P wastes, and flowback from hydraulic fracturing operations will not be allowed.
Drilling/Completion Operations	All MLVT liners seams shall be welded at the liner manufacturer's facility. Field welded liners shall not be used. Liners shall not be reused.
Drilling/Completion Operations	• All MLVT liners seams shall be welded at the liner manufacturer's facility. Field welded liners shall not be used. Liners shall not be reused.
Drilling/Completion Operations	• Should a failure of MLVT integrity occur, Bonanza will notify COGCC upon discovery, report the incident to COGCC on a Form 22-Accident Report within 10 days of discovery, and conduct a root cause analysis. The results of the root cause analysis will be reported to COGCC on a Sundry-Form 4 within 30 days of discovery of the failure.

**S/A/V:** \_\_\_\_\_ **Comment:** \_\_\_\_\_

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

**Stormwater:**

**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: 438198 Type: WELL API Number: 123-39902 Status: DG Insp. Status: PR

**Producing Well**

Comment: PR

**BradenHead**

Comment: BRADENHEAD EXPOSED TO SURFACE

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

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

Facility ID: 438198 Type: WELL API Number: 123-39903 Status: DG Insp. Status: PR

**Producing Well**

Comment: PR

**BradenHead**

Comment: BRADENHEAD EXPOSED TO SURFACE

CA:

CA Date:

Facility ID: 438200 Type: WELL API Number: 123-39904 Status: DG Insp. Status: PR

**Producing Well**

Comment: PR

**BradenHead**

Comment: BRADENHEAD EXPOSED TO SURFACE

CA:

CA Date:

Facility ID: 438201 Type: WELL API Number: 123-39905 Status: DG Insp. Status: PR

**Producing Well**

Comment: PR

**BradenHead**

Comment: BRADENHEAD EXPOSED TO SURFACE

CA:

CA Date:

Facility ID: 438203 Type: WELL API Number: 123-39906 Status: DG Insp. Status: PR

**Producing Well**

Comment: PR

**BradenHead**

Comment: BRADENHEAD EXPOSED TO SURFACE

CA:

CA Date:

Facility ID: 438204 Type: WELL API Number: 123-39907 Status: XX Insp. Status: PR

**Producing Well**

Comment: PR

**BradenHead**

Comment: BRADENHEAD EXPOSED TO SURFACE

CA:

CA Date:

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

1003a. Debris removed? Pass CM \_\_\_\_\_ CA \_\_\_\_\_ CA Date \_\_\_\_\_  
Waste Material Onsite? 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 removed? Pass CM \_\_\_\_\_ CA \_\_\_\_\_ CA Date \_\_\_\_\_  
Guy line anchors marked? \_\_\_\_\_ CM \_\_\_\_\_ CA \_\_\_\_\_ CA Date \_\_\_\_\_

1003b. Area no longer in use? Pass Production areas stabilized ? Pass  
1003c. Compacted areas have been cross ripped? \_\_\_\_\_  
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? \_\_\_\_\_  
Production areas have been stabilized? \_\_\_\_\_ Segregated soils have been replaced? \_\_\_\_\_

**RESTORATION AND REVEGETATION**

Cropland  
Top soil replaced In Recontoured In Perennial forage re-established \_\_\_\_\_  
Non-Cropland  
Top soil replaced \_\_\_\_\_ Recontoured \_\_\_\_\_ 80% Revegetation \_\_\_\_\_

Inspector Name: Rains, Bill

1003 f. Weeds Noxious weeds? \_\_\_\_\_

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

Overall Interim Reclamation \_\_\_\_\_

**Final Reclamation/ Abandoned Location:**

Date Final Reclamation Started: \_\_\_\_\_

Date Final Reclamation Completed: \_\_\_\_\_

Final Land Use: IRRIGATED \_\_\_\_\_

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
Waddles	Pass					
Gravel	Pass	Gravel	Pass	MHSP	Pass	

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

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

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

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

**Pits:**  NO SURFACE INDICATION OF PIT