

**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:
09/25/2014Document Number:
673801431Overall Inspection:
SATISFACTORY**FIELD INSPECTION FORM**

Location Identifier	Facility ID	Loc ID	Inspector Name:	On-Site Inspection	<input type="checkbox"/>
	<u>277457</u>	<u>332837</u>	<u>Gomez, Jason</u>	2A Doc Num:	

Operator Information:OGCC Operator Number: 57667Name of Operator: MINERAL RESOURCES INCAddress: PO BOX 328City: GREELEY State: CO Zip: 80632

- ☒ 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:**Compliance Summary:**QtrQtr: NENE Sec: 20 Twp: 5N Range: 65W

Insp. Date	Doc Num	Insp. Type	Insp Status	Satisfactory /Action Required	PA P/F/I	Pas/Fail (P/F)	Violation (Y/N)
03/31/2011	200306115	WS	PR	SATISFACTORY			No
09/04/2008	200194769	BH	PR	SATISFACTORY	I		No
01/13/2006	200083196	PR	PR	SATISFACTORY		Pass	No
10/21/2005	200078590	DG	DG	SATISFACTORY		Pass	No
10/18/2005	200078604	DG	DG	SATISFACTORY		Pass	No

Inspector Comment:**Related Facilities:**

Facility ID	Type	Status	Status Date	Well Class	API Num	Facility Name	Insp Status	
276905	WELL	PR	01/30/2010	OW	123-22866	BMC B8	PR	<input checked="" type="checkbox"/>
276906	WELL	PR	12/26/2009	OW	123-22867	HIGHWAY 85-2 B11	PR	<input checked="" type="checkbox"/>
276907	WELL	PR	04/19/2011	OW	123-22868	HIGHWAY 85-1 B12	PR	<input checked="" type="checkbox"/>
276928	WELL	PR	12/15/2009	GW	123-22869	BUS BARN A5	PR	<input checked="" type="checkbox"/>
276929	WELL	PR	12/18/2009	OW	123-22870	GREELEY INDUSTRIAL SOUTH B9	PR	<input checked="" type="checkbox"/>
276935	WELL	PR	04/26/2011	OW	123-22875	PARKVIEW SOUTH A3	PR	<input checked="" type="checkbox"/>
276936	WELL	PR	04/28/2010	OW	123-22874	DELTA PARK A2	PR	<input checked="" type="checkbox"/>
276937	WELL	PR	12/24/2009	OW	123-22873	SHUPE 5 SPOT B10	PR	<input checked="" type="checkbox"/>
276938	WELL	PR	12/22/2009	OW	123-22872	SMITH 5 SPOT A4	PR	<input checked="" type="checkbox"/>
276939	WELL	PR	12/15/2009	OW	123-22871	SAM PAK A6	PR	<input checked="" type="checkbox"/>
277457	WELL	PR	04/18/2011	OW	123-22953	CLARK A1	PR	<input checked="" type="checkbox"/>
286278	WELL	PR	02/27/2014	OW	123-24175	WHEELER D3	PR	<input checked="" type="checkbox"/>
286279	WELL	PR	08/27/2007	OW	123-24174	GARDEN CITY D5	PR	<input checked="" type="checkbox"/>
286280	WELL	AL	04/06/2012	LO	123-24173	WINTERSETZ E8	AL	<input type="checkbox"/>

Inspector Name: Gomez, Jason

286281	WELL	PR	07/26/2007	OW	123-24172	UNIVERSITY SQUARE D6	PR	X
286282	WELL	PR	05/24/2007	OW	123-24171	UNIVERSITY 5 SPOT D4	PR	X
286437	WELL	PR	12/22/2006	OW	123-24206	MILLERS GREEN HOUSE A10	PR	X
286438	WELL	PR	01/12/2007	GW	123-24205	RIVERVIEW A9	PR	X
286439	WELL	PR	07/26/2007	OW	123-24204	MOTORENA E1	PR	X
286440	WELL	PR	08/07/2007	OW	123-24203	CDOT-1 E2	PR	X
286441	WELL	PR	07/16/2007	OW	123-24202	SUNNYVIEW E4	PR	X
286442	WELL	PR	07/21/2007	OW	123-24201	SLEEP INN E5	PR	X
286443	WELL	AL	04/06/2012	LO	123-24200	TELEP REIMER E7	AL	
286444	WELL	PR	07/16/2007	OW	123-24199	TRI POINT E3	PR	X
286445	WELL	PR	12/24/2006	GW	123-24198	HWY 34-2 A8	PR	X
286446	WELL	PR	02/27/2014	OW	123-24197	DRIFTWOOD D1	PR	X
286486	WELL	PR	05/19/2007	OW	123-24212	UNION PACIFIC C5	PR	X
286487	WELL	PR	04/24/2011	OW	123-24211	DISTRICT SIX C6	PR	X
286488	WELL	PR	05/15/2007	OW	123-24210	CLASSIC LANES C9	PR	X
286489	WELL	PR	05/20/2007	OW	123-24209	VOLK C7	PR	X
286490	WELL	PR	04/20/2011	OW	123-24208	HWY 85-3 C4	PR	X
287382	WELL	PR	12/14/2006	OW	123-24304	HWY 34-1 A7	PR	X
287904	WELL	PR	05/24/2007	OW	123-24460	COUNTRYSIDE CENTER C3	PR	X
290029	WELL	PR	06/30/2007	OW	123-24990	CDOT-2 D7	PR	X
290030	WELL	PR	06/29/2007	OW	123-24989	EHRlich MOTORS D8	PR	X
290031	WELL	PR	06/30/2007	OW	123-24988	CDOT-3 D2	PR	X

Equipment:Location Inventory

Special Purpose Pits: _____	Drilling Pits: _____	Wells: <u>58</u>	Production Pits: _____
Condensate Tanks: _____	Water Tanks: <u>8</u>	Separators: <u>52</u>	Electric Motors: _____
Gas or Diesel Mortors: <u>4</u>	Cavity Pumps: _____	LACT Unit: _____	Pump Jacks: _____
Electric Generators: _____	Gas Pipeline: _____	Oil Pipeline: _____	Water Pipeline: _____
Gas Compressors: <u>4</u>	VOC Combustor: _____	Oil Tanks: <u>42</u>	Dehydrator Units: _____
Multi-Well Pits: _____	Pigging Station: _____	Flare: <u>11</u>	Fuel Tanks: _____

Location

Emergency Contact Number (S/A/V): _____

Corrective Date: _____

Comment: _____

Corrective Action: _____

Spills:

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

Venting:		
Yes/No	Comment	
NO		

Flaring:				
Type	Satisfactory/Action Required	Comment	Corrective Action	CA Date

PredrillLocation ID: 277457**Site Preparation:**

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

S/A/V: _____

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

Form 2A COAs:**S/A/V:** _____ **Comment:** _____**CA:** _____ **Date:** _____**Wildlife BMPs:**

BMP Type	Comment
General Housekeeping	Solid Waste <ul style="list-style-type: none"> • The site will be cleaned of all trash and waste as soon as practical. • All waste will be stored in sealed containers until it can be disposed of appropriately. • Solid waste will be removed from the site and disposed of per state regulations for solid waste.
Dust control	To improve air quality, generated dust from the silica sand used during hydraulic fracturing will be contained using a dust suppression vacuum system.
Planning	3. Access to the property will be controlled by an existing motorized gate operated by a knox box key pad.
Dust control	Fugitive Dust Control <ul style="list-style-type: none"> 1A - Watering shall be completed as needed to control dust on unpaved roads. 1B - Speed limits to prevent dust on unpaved roads.
Noise mitigation	A noise impact modeling report was prepared by Behrens and Associates, Inc. Refer to the report for specifics pertaining to anticipated noise from the proposed use.
Planning	5. Security cameras will be installed allowing Mineral Resources to monitor the facility.
Material Handling and Spill Prevention	Land-farming of E&P waste will not be conducted on the location. This shall not preclude on-site disposal of E&P waste in accordance with COGCC Rules and permit conditions.
Noise mitigation	The Noise Study conducted by consultants Behrens and Associates, Inc. for Greeley Directional is in compliance with COGCC Section 802 "Noise Abatement". The site is bordered by industrial zoned property and residential to the northwest and west. No additional mitigation is required for this site of using sound mufflers or sound walls. The Unmitigated noise impact models representing drilling and fracing operations at the site were constructed and the results compared to the COGCC Standard.
Planning	Secondary containment will be provided around the tank battery and separators per COGCC Rules and regulations. Secondary containment around the tank battery will include a steel containment system, 30-44 inches tall; with either a geomembrane top mounted or sprays on liner.
Planning	4. The site will be monitored daily by mineral resources to ensure operations are functioning properly. Daily reports consist of tank measurements, gas production estimates, pressure readings, and general facility care and maintenance.
Planning	To minimize impacts from lighting used during the drilling phase, lighting shield devices will be installed on all of the more conspicuous lights and the rig floor will be shrouded.

Planning	13. The operator shall identify the location of plugged and abandoned wells with a permanent monument which shall include the well number and date of plugging inscribed on the monument.
Planning	Exhaust from all engines, motors, coolers, and other mechanized equipment shall be vented away from all occupied buildings.
Planning	The operator will obtain a Use by Special Review permit for the location through the City of Greeley. The USR will address site specific conditions related to traffic, drainage, and erosion control.
Planning	Adequate blowout prevention equipment shall be provided for drilling operations and well serving operations.
Material Handling and Spill Prevention	<p>Spill Prevention</p> <ul style="list-style-type: none"> • All materials, waste, and fluids kept on-site will be stored in an appropriate manner to prevent contamination of the environment. • If a spill occurs, it will be cleaned up using absorbent material and by removing the contaminated soil. • Any contaminated soil will be disposed of appropriately. • All efforts will be made to prevent the spill from migrating off-site or coming into contact with stormwater runoff. • The Spill Control and Countermeasures plan will address and control all spill procedures.
Planning	When feasible, electric compressors shall be utilized.
Construction	12. Any material not in use that might constitute a fire hazard shall be placed a minimum m of twenty-five (25) feet from the well head, tanks and separator. Within Ninety (9) days after a well is plugged and abandoned, the well site shall be cleared of all nonessential equipment.
Planning	To reduce impacts to air quality gas gathering lines will be constructed and installed prior to completion of the wells. Therefore flaring of gas during the flowback process will be limited, if not eliminated.
Material Handling and Spill Prevention	The tank battery will be constructed using a steel containment ring and either a geomembrane or spray on liner.
Drilling/Completion Operations	A closed loop system will be utilized for all drilling fluids. No open pits will be used.
Emissions mitigation	7. Emissions control devices (ECD) and vapor recovery units (VRU) will be installed. Both units function to reduce volatile organic compound (VOC) emissions that are generated from the crude oil and condensate tanks. The ECD and VRU devices reduce VOC emissions by at least 95% through combustion and sequestration.
Planning	2. Signage providing company information and a 24 hour contact information will be provided. Refer to landscape plan for location.
Community Outreach and Notification	<p>Public Notice</p> <ul style="list-style-type: none"> • A sign with Mineral Resources' contact information and a 24-hour contact number will be placed at or near the access road entrance. • For this project, per City of Greeley Use by Special Review process, public notice will be provided by the city staff. • Mineral Resources will conduct a neighborhood meeting, upon request by the City of Greeley, prior to City of Greeley planning commission hearing. If such meeting should occur, the City of Greeley will help organize the meeting through the Use by Special Review process.
Drilling/Completion Operations	Emissions from condensate, crude oil, and produced water tanks and from glycol dehydrators shall be controlled with devices capable of achieving 95% efficiency destruction of volatile organic compounds. Operator shall comply with applicable Colorado Department of Public Health and Environment, Air Pollution Control Division permitting requirements.
Drilling/Completion Operations	Mineral Resources is responsible for the design and implementation of MLVTs on the Greeley Directional location. Compliance with MLVT policy dated 06/13/2014 will be sole responsibility of Mineral Resources.
Planning	The following Best Management Practices will be implemented during MLVT installation: The site shall be prepared in accordance with tank manufacturers specification prior to tank installation; including ensuring that proper compaction requirements have been met. A 36-MIL fabric reinforced liner will be utilized. In the event that a tank breach were to occur, the fabric reinforced liner will prevent a "zippering" failure from occurring.

Planning	Temporary above ground water tanks shall be installed on-site to be used for water storage during the completion phase. Tanks will be filled from the city of Greeley's water system. By filling the tank in this manner, water hauling trucks will not back up to the tank to offload water. This process significantly reduces the change of a collision with the tank. In addition, this process also significantly reduces truck traffic associated with water hauling.
Storm Water/Erosion Control	<p>Stormwater</p> <ul style="list-style-type: none"> • Mineral Resources maintains a Field Wide Stormwater Management Permit, Certification No. COR03H509. This site falls under this permit. • Stormwater best management practices will be completed per the site specific stormwater management plan. • Permanent seeding will be installed once all drilling and completion activities are finalized. • All stormwater best management practices will remain in place until final stabilization is achieved.
Planning	6. The operations of the facility will be completely automated allowing Mineral Resources to monitor all production operations remotely. In the event that the facility is not operating under normal conditions, the automation system will immediately notify Mineral Resources. The automation system also has the ability to remotely perform an emergency shut down if necessary.
Drilling/Completion Operations	Reduced emissions completions: Operator will employ completion practices that will ensure compliance with COGCC Rule 805.b.(3).
Planning	Operator will make best efforts to reduce truck traffic related to water hauling by using an on-site water source, if available in sufficient supply from the City of Greeley, to supply drilling and completion water.
Material Handling and Spill Prevention	A Waste Management Plan for the land application or other beneficial reuse of drill cuttings will be submitted to COGCC for review and approval prior to moving drill cuttings from the location.
Emissions mitigation	<p>8. Regular fugitive emissions air quality and general facility inspections will be conducted by CGRS, an Environmental compliance specialist. Inspections include</p> <ul style="list-style-type: none"> • Perform general tank battery inspection to document any obvious issues based on the CDHPE-APCD oil and gas condensate spot check inspection check list. • Identify all potential fugitive emission sources by utilizing a forward looking infrared (flir) optical imaging camera; model Flir GF-320. • Document and record by means of physical documentation, video and or photo all fugitive emission sources. • Label tank battery, separator, emission control device (EC) well head, and other equipment that exhibit fugitive emissions with a unique numbered fugitive emissions inspection tag. • Mark individual leak sources with a temporary yellow marking (as applicable) in order to facilitate improving efficiency of subsequent repairs. • Perform fugitive emission minor equipment repairs (as applicable) on low-pressure components using basic hand tools at the tank battery and will pad. • Prepare a fugitive emissions inspection and optical gas imaging report to document areas that require additional repair or maintenance.
Planning	1. The site will be fenced in accordance with city and COGCC regulations for public safety. Exterior site fencing and fencing of oil and gas equipment will be provided. Refer to this plan and the landscape plans prepared by TB group for location. At the time of initial installation, all pumps, pits, well heads and production facilities must be adequately fenced to restrict access by unauthorized persons. For security purposes, all such facilities and equipment used in the operation of a completed well must be surrounded by a fence six (6) feet in height, of noncombustible material, and which must include a gate that shall be locked.

S/A/V: _____ **Comment:** _____

CA: _____ **Date:** _____

Stormwater:

Comment: _____

Staking:

On Site Inspection (305):

Inspector Name: Gomez, Jason

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: 276905 Type: WELL API Number: 123-22866 Status: PR Insp. Status: PR

Producing Well

Comment: PR

Facility ID: 276906 Type: WELL API Number: 123-22867 Status: PR Insp. Status: PR

Producing Well

Comment: PR

Facility ID: 276907 Type: WELL API Number: 123-22868 Status: PR Insp. Status: PR

Producing Well

Comment: PR

Facility ID: 276928 Type: WELL API Number: 123-22869 Status: PR Insp. Status: PR

Producing Well

Comment: PR

Facility ID: 276929 Type: WELL API Number: 123-22870 Status: PR Insp. Status: PR

Producing Well

Comment: PR

Facility ID: 276935 Type: WELL API Number: 123-22875 Status: PR Insp. Status: PR

Producing Well

Comment: PR

Facility ID: 276936 Type: WELL API Number: 123-22874 Status: PR Insp. Status: PR

Producing Well

Comment: PR

Facility ID: 276937 Type: WELL API Number: 123-22873 Status: PR Insp. Status: PR

Producing Well				
Comment: PR				
Facility ID: 276938	Type: WELL	API Number: 123-22872	Status: PR	Insp. Status: PR
Producing Well				
Comment: PR				
Facility ID: 276939	Type: WELL	API Number: 123-22871	Status: PR	Insp. Status: PR
Producing Well				
Comment: PR				
Facility ID: 277457	Type: WELL	API Number: 123-22953	Status: PR	Insp. Status: PR
Producing Well				
Comment: PR				
Facility ID: 286278	Type: WELL	API Number: 123-24175	Status: PR	Insp. Status: PR
Producing Well				
Comment: PR				
Facility ID: 286279	Type: WELL	API Number: 123-24174	Status: PR	Insp. Status: PR
Producing Well				
Comment: PR				
Facility ID: 286281	Type: WELL	API Number: 123-24172	Status: PR	Insp. Status: PR
Producing Well				
Comment: PR				
Facility ID: 286282	Type: WELL	API Number: 123-24171	Status: PR	Insp. Status: PR
Producing Well				
Comment: PR				
Facility ID: 286437	Type: WELL	API Number: 123-24206	Status: PR	Insp. Status: PR
Producing Well				
Comment: PR				
Facility ID: 286438	Type: WELL	API Number: 123-24205	Status: PR	Insp. Status: PR
Producing Well				
Comment: PR				
Facility ID: 286439	Type: WELL	API Number: 123-24204	Status: PR	Insp. Status: PR
Producing Well				
Comment: PR				
Facility ID: 286440	Type: WELL	API Number: 123-24203	Status: PR	Insp. Status: PR
Producing Well				
Comment: PR				

Facility ID: 286441	Type: WELL	API Number: 123-24202	Status: PR	Insp. Status: PR
Producing Well				
Comment: PR				
Facility ID: 286442	Type: WELL	API Number: 123-24201	Status: PR	Insp. Status: PR
Producing Well				
Comment: PR				
Facility ID: 286444	Type: WELL	API Number: 123-24199	Status: PR	Insp. Status: PR
Producing Well				
Comment: PR				
Facility ID: 286445	Type: WELL	API Number: 123-24198	Status: PR	Insp. Status: PR
Producing Well				
Comment: PR				
Facility ID: 286446	Type: WELL	API Number: 123-24197	Status: PR	Insp. Status: PR
Producing Well				
Comment: PR				
Facility ID: 286486	Type: WELL	API Number: 123-24212	Status: PR	Insp. Status: PR
Producing Well				
Comment: PR				
Facility ID: 286487	Type: WELL	API Number: 123-24211	Status: PR	Insp. Status: PR
Producing Well				
Comment: PR				
Facility ID: 286488	Type: WELL	API Number: 123-24210	Status: PR	Insp. Status: PR
Producing Well				
Comment: PR				
Facility ID: 286489	Type: WELL	API Number: 123-24209	Status: PR	Insp. Status: PR
Producing Well				
Comment: PR				
Facility ID: 286490	Type: WELL	API Number: 123-24208	Status: PR	Insp. Status: PR
Producing Well				
Comment: PR				
Facility ID: 287382	Type: WELL	API Number: 123-24304	Status: PR	Insp. Status: PR
Producing Well				
Comment: PR				
Facility ID: 287904	Type: WELL	API Number: 123-24460	Status: PR	Insp. Status: PR

Inspector Name: Gomez, Jason

Producing Well

Comment: **PR**

Facility ID: 290029 Type: WELL API Number: 123-24990 Status: PR Insp. Status: PR

Producing Well

Comment: **PR**

Facility ID: 290030 Type: WELL API Number: 123-24989 Status: PR Insp. Status: PR

Producing Well

Comment: **PR**

Facility ID: 290031 Type: WELL API Number: 123-24988 Status: PR Insp. Status: PR

Producing Well

Comment: **PR**

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:

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: INDUSTRIAL

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 REVEGETATIONCropland

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: INDUSTRIAL _____

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 ☐

Inspector Name: Gomez, Jason

Storm Water:						
Loc Erosion BMPs	BMP Maintenance	Lease Road Erosion BMPs	Lease BMP Maintenance	Chemical BMPs	Chemical BMP Maintenance	Comment
Gravel	Pass					
S/A/V: SATISFACTOR Y						
Corrective Date: _____						
Comment: _____						
CA: _____						
Pits: <input checked="" type="checkbox"/> NO SURFACE INDICATION OF PIT						