# Leak Detection and Repair (LDAR) Annual Report Form<sup>1</sup>



Please submit via email to: cdphe\_reg7LDAR\_annualreports@state.co.us

#### Section 1: General Information

Company Name:	Black Hills Energy (Rocky Mountain Natural Gas)										
Inspection Year:	2015	# Facilities Inspecte	ed: <sup>2</sup>	3							
Contact Person:	Tim Rogers	Title:	Environm	ental Manager							
Phone Number:	605-721-2286	E-mail Address:	im.rogers	@blackhillscorp.com							

#### Section 2: LDAR Inspections

Inspection Method	# Inspections <sup>3</sup>
AIMM at Natural Gas Compressor Stations:	4
AIMM at Well Production Facilities:	0
AVO at Well Production Facilties:	0
TOTAL	4

#### Section 3: Leaking Components Details

Component Type	# Leaks Identified <sup>4</sup>	# Leaks Repaired	# Leaks on Delay of Repair List as of Dec 31					
Valves:	5	5	0					
Connectors:	13	13	0					
Flanges:	0	0	0					
Pump Seals:	0	0	0					
Pressure Relief Devices:	2	2	0					
TOTAL	20	20	0					

#### Section 4: Responsible Official Certification

All information contained in the LDAR Annual Report must be certified by a responsible official as defined in Colorado Regulation No. 3, Part A, Section 1.B.38.

Please note the Colorado Statutes state that any person who knowingly, as defined in §18-1-501(6), C.R.S., makes any false material statement, representation, or certification in this document is guilty of a misdemeanor and may be punished in accordance with the provisions of §25-7 122.1, C.R.S.

I, the Responsible Official, have reviewed this annual report in its entirety and, based on information and belief formed after reasonable inquiry, I certify that the statements and information contained in this report are true, accurate and complete.

Printed/Typed Name - Responsible Official:	Title:
Susan Bailey	Vice President Operations - Colorado Gas
Signature: Susan Bailey	Date: September 19, 2016
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Regulation 7, Section XVII.F.9	Version December 09, 20:						
Section 5: Additional Notes							

#### Section 6: Facilties Inspected

		Addendum Table 1
Plant AIRS ID (e.g., 123/7896)	Location (e.g., Lat/Long)	Facility Name
103/0037		Piceance Creek
081/0549	lat 40.813725 deg long -107.935960 deg	Big Hole
081/0074	lat 40.72146461 deg long -107.5651752 deg	Blue Gravel

#### Footnotes:

<sup>&</sup>lt;sup>1</sup> The fields shaded in blue are mandatory required elements of the annual report. The remaining information is voluntary and requested to help the Division better interpret the implementation of the leak detection and repair program.

<sup>&</sup>lt;sup>2</sup> "# of Facilities Inspected" should reflect the total number of unique physical locations (e.g. well production facilities and natural gas compressor stations) inspected during the calendar year reported.

# **SOURCE GAS**



### 2015 Leak/Repair List

Piceance Creek

LOCATION	Equipment	Equipment Comments	Component	Component Comment	Type of Leak (LDAR or STEM)	Tag ID #	Initial Inspection Date	Repair Deadline Date	Initial Repair Attempt Date	Parts Recieved or Shutdown Date	2nd Repair Attempt Date	Verification <u>Date</u>	Initial Leak Video ID#	Verification Video ID #	Outstanding Leak? (Y/N)	Repair Attempt Method	<u>Notes</u>
Piceance Creek	Compressor	Airs 011	Connector	Half inch line under fuel gas supply	LDAR	1	3/16/2015	Repaired				4/13/2015	1938	2073	N	Replaced Part	
Piceance Creek	Storage Tank (Oil)	Tank # 103/0037/010	Thief Hatch	Thief hatch on tank # 103/0037/010	LDAR	2	3/16/2015	Repaired				4/13/2015	1939	2071	N	Resealed	
Piceance Creek	Separator	Vertical separator	Valve	Dump valve	LDAR	3	3/16/2015	Repaired				4/13/2015	1940	2072	N	Rebuilt Part	
Piceance Creek	Separator	Free water knock out, gas and liquid separator	Connector	Connection to silver line off wet gas line from separator	LDAR	173	6/25/2015	Repaired				9/23/2015	2618	3090	N	Tightened	
Piceance Creek	Refrigerant surge tank		Connector	Connector off of horizontal line above surge tank, packing inside connection	LDAR	174	6/25/2015	Repaired				9/23/2015	2619	3091	N	Replaced Part	
Piceance Creek	Piping	Piping inside building red pressurized pneumatic device e966	Fitting	Fitting cap on post sticking out from device	LDAR	175	6/25/2015	Repaired				9/23/2015	2622	3094	N	Resealed	
Piceance Creek	Piping	Piping inside storage building	Connector	Connector to gauge coming vertically off of piping	LDAR	176	6/25/2015	Repaired				9/23/2015	2623	3093	N	Tightened	
Piceance Creek	Compressor	Ajax compressor 848 AIRS ID 011	Fitting	Fitting on silver line coming out of compressor cylinder	LDAR	177	6/25/2015	Repaired				9/23/2015	2624	3098	N	Resealed	
Piceance Creek	Compressor	Ajax compressor 848 AIRS ID 012	Connector	Connection on piping by-pass line between by-pass line valve 5 and vertical bottle	LDAR	178	6/25/2015	Repaired				9/23/2015	2625	3099	N	Tightened	
Piceance Creek	Compressor	Ajax compressor 848 AIRS ID 013	Connector	Connection on piping by-pass line between by-pass line valve 5 and vertical bottle vertical piece above elbow	LDAR	179	6/25/2015	Repaired				9/23/2015	2626	3100	N	Tightened	
Piceance Creek	Storage Tank (Oil)	Tank #1	Thief Hatch	Hatch Seal	Both LDAR & STEM	423	9/23/2015	Repaired	9/23/2015			9/23/2015	3092		N	Re-sealed	Cleaned and re-sealed.
Piceance Creek	Piping	Meter room	Gas meter field terminal	Plate on left side of unit facing south, below blue housing	LDAR	424	9/23/2015	Repaired				12/29/2015	3095	3266	N	Tightened	
Piceance Creek	Piping	Piping outside meter station building	Valve	Packing screw on outside of valve	LDAR	425	9/23/2015	Repaired	9/23/2015			10/5/2015	3096		N	Greased	Re-packed and re-sealed.
Piceance Creek	Piping	Piping on east side of compressor building	Piping stack	Top of stack	LDAR	426	9/23/2015	Repaired	9/23/2015			9/23/2015	3097		N	Adjusted	
Piceance Creek	Piping	Piping inside shed center of location	Open Ended Line	West end of shed piping, green cap on	LDAR	269	12/29/2015	Repaired	12/29/2015			12/29/2015	3267	3268	N	Adjusted	
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# **SOURCE GAS**



### 2015 Leak/Repair List

Blue Gravel

LOCATION	Equipment	Equipment Comments	Component	Component Comment	Type of Leak (LDAR or STEM)		Initial Inspection Date	Repair Deadline Date	Initial Repair Attempt Date	Parts Recieved or Shutdown Date	2nd Repair Attempt Date	Verification Date	Initial Leak Video ID#	Verification Video ID #	Outstanding Leak? (Y/N)	Repair Attempt Method	<u>Notes</u>
Blue Gravel	Dehydrator		Connector	Main fuel gas to the burner. Connecter coming from the building.	LDAR	6	3/16/2015	Repaired				4/13/2015	1944	2074	N	Resealed	
Blue Gravel	Dehydrator			Copper line going from the T12 temp regulator to the Kimray valve	LDAR	7	3/16/2015	Repaired				4/13/2015	1945	2075	N	Resealed	
Blue Gravel	Dehydrator		Gauge	T12 max over temp safety gauge	LDAR	8	3/16/2015	Repaired				4/13/2015	1946	2076	N	Resealed	

# **SOURCE GAS**



# 2015 Leak/Repair List

Big Hole

LOCATION	Equipment Comments	Component	Component	Type of Leak (LDAR or STEM)		Initial Inspection Date	Repair Deadline Date	Initial Repair Attempt Date	Parts Recieved or Shutdown Date	2nd Repair Attempt Date	Verification		Verification Video ID #	Outstanding Leak? (Y/N)	Repair Attempt Method	Notes
Big Hole	Dehydrator	Pressure Regulator	Regulator for the line burner	LDAR	4	3/16/2015	Repaired					1941		N		Dehy unit scheduled to be replaced
Big Hole	Dehydrator	Pressure Regulator	For level controller	LDAR	5	3/16/2015	Repaired					1942		N		Dehy unit scheduled to be replaced