

SoCalGas, June 15, 2018

Rulemaking (R.) 15-01-008 to Adopt Rules and Procedures Governing Commission Regulated Natural Gas Pipelines and Facilities to Reduce Natural Gas Leaks Consistent with Senate Bill 1371, Leno.
In Response to Data Request, R15-01-008 2018 June Report

Appendix 7; Rev. 03/31/18

Notes:

Use a formula-derived value with the formula used in the Annual Emissions column. Do not use a copy and paste-as-value.

At the end of Annual Emissions Column, add a summation total in a cell for a column total, and then highlight orange

Use the Population based emission factor if facility is not surveyed. Use Leaker based emission factor if facility is surveyed, and report only the found leaking components.

Underground Storage Facility Leaks and Emissions:

ID	Geographic Location	Source	Number of Sources	Emission Factor (Mscf/yr/dev)	Annual Emissions (Mscf)	Explanatory Notes / Comments
N/A	91326	W/P	383	1.7808	682.04	Valve Component - Appendix 9 Leaker EF. Assumed 5-day duration due to daily well inspection and leak repair activities.
N/A	91326	W/P	363	0.6791	246.51	Connector Component - Appendix 9 Leaker EF. Assumed 5-day duration due to daily well inspection and leak repair activities.
N/A	91326	W/P	2	4.7592	9.52	Pressure Relief Valve Component - Appendix 9 Leaker EF. Assumed 5-day duration due to daily well inspection and leak repair activities.
N/A	93111	W	160	0.8760	140.16	Valve Component - Appendix 9 Population EF. GHG Subpart W survey out of scope - used population estimate.
N/A	93111	W	480	0.0876	42.05	Connector Component - Appendix 9 Population EF. GHG Subpart W survey out of scope - used population estimate.
N/A	90640	W	264	0.8760	231.26	Valve Component - Appendix 9 Population EF. GHG Subpart W survey out of scope - used population estimate.
N/A	90640	W	792	0.0876	69.38	Connector Component - Appendix 9 Population EF. GHG Subpart W survey out of scope - used population estimate.
N/A	90293	W	224	0.8760	196.22	Valve Component - Appendix 9 Population EF. GHG Subpart W survey out of scope - used population estimate.
N/A	90293	W	672	0.0876	58.87	Connector Component - Appendix 9 Population EF. GHG Subpart W survey out of scope - used population estimate.
N/A	91355	W	349	0.8760	305.72	Valve Component - Appendix 9 Population EF. GHG Subpart W survey.
N/A	91355	W	1,157	0.0876	101.35	Connector Component - Appendix 9 Population EF. GHG Subpart W survey.
			Sum Total		2,083.09	

SoCalGas, June 15, 2018

Rulemaking (R.) 15-01-008 to Adopt Rules and Procedures Governing Commission Regulated Natural Gas Pipelines and Facilities to Reduce Natural Gas Leaks Consistent with Senate Bill 1371, Leno.
 In Response to Data Request, R15-01-008 2018 June Report
 Appendix 7: Rev. 03/31/18

Notes:

Use a formula-derived value with the formula used in the Annual Emissions column. Do not use a copy and paste-as-value.
 At the end of Annual Emissions Column, add a summation total in a cell for a column total, and then highlight orange.
 The emissions captured on this tab represent the emissions associated with the operational design and function of the compressor. Any intentional release of natural gas for safety or maintenance purposes should be included on the Blowdowns worksheet.

Underground Storage Facility Compressor Vented Emissions (see note above):

ID	Geographic Location	Compressor Type	Prime Mover	Number of Cylinders in Compressor	Number of Seals	Seal Type	Operating Mode: Pressurized Operating (hours)	Operating Mode: Pressurized Idle (hours)	Operating Mode: Depressurized Idle (hours)	Emission Factor: Pressurized Operating (scf/hr)	Emission Factor: Pressurized Idle (scf/hr)	Emission Factor: Depressurized Idle (scf/hr)	Annual Emissions (Mscf)	Explanatory Notes / Comments
CB6	90293	R	C	4	N/A	N/A	1,529	7,231	0	478	0	0	731	Out-of-scope for GHG Subpart W surveys. Used the calculation method to extrapolate emissions since no measurements were taken.
CB8	90293	R	C	4	N/A	N/A	744	8,016	0	478	0	0	356	Out-of-scope for GHG Subpart W surveys. Used the calculation method to extrapolate emissions since no measurements were taken.
CB9	90293	R	C	4	N/A	N/A	1,561	7,199	0	478	0	0	747	Out-of-scope for GHG Subpart W surveys. Used the calculation method to extrapolate emissions since no measurements were taken.
K-25	91326	C	C	N/A	1	W	526	0	8,234	3,441	N/A	0	1,810	
K-26	91326	C	C	N/A	1	W	156	0	8,604	3,441	N/A	0	537	
K-27	91326	C	C	N/A	1	W	86	0	8,674	3,441	N/A	0	296	
K-17B	91326	R	E	2	N/A	N/A	2,160	6,600	0	478	0	0	1,033	
K-18A	91326	R	E	2	N/A	N/A	1,603	7,157	0	478	0	0	767	
K-50	91326	R	E	2	N/A	N/A	0	6,320	2,430	478	0	0	0	
K-51A	91326	R	E	2	N/A	N/A	144	8,500	116	478	0	0	69	
K-51B	91326	R	E	2	N/A	N/A	120	8,640	0	478	0	0	57	
K-5	91326	R	C	4	N/A	N/A	539	4,800	3,421	2	0	0	1	
K-1	91326	R	C	4	N/A	N/A	871	4,800	3,089	0	0	0	0	
K-2	91326	R	C	4	N/A	N/A	852	4,800	3,108	0	0	0	0	
K-3	91326	R	C	4	N/A	N/A	642	4,800	3,318	0	0	0	0	
K-4	91326	R	C	4	N/A	N/A	787	4,800	3,173	0	0	0	0	
MU-1	91355	R	C	6	N/A	N/A	3,705	1,153	3,902	1,546	0	0	5,726	
MU-4	91355	R	C	6	N/A	N/A	2,624	1,727	4,409	1,500	0	0	3,937	
MU-3	91355	R	C	6	N/A	N/A	3,265	1,163	4,332	697	0	0	2,276	
550A	91355	R	E	2	N/A	N/A	392	8,368	0	478	0	0	188	
550B	91355	R	E	2	N/A	N/A	392	8,368	0	478	0	0	188	
C-434A	91355	R	E	2	N/A	N/A	3,416	5,236	108	478	0	0	1,634	
C-436A	91355	R	E	2	N/A	N/A	3,941	4,815	4	478	0	0	1,885	
MU-2	91355	R	C	6	N/A	N/A	3,148	2,434	3,178	478	0	0	1,506	
MU-5	91355	R	C	6	N/A	N/A	1,960	3,340	3,460	478	0	0	938	
C-434B	91355	R	E	2	N/A	N/A	2,367	6,285	108	0	0	0	0	
C-436B	91355	R	E	2	N/A	N/A	2,934	5,822	4	0	0	0	0	
WG1	91355	R	C	2	N/A	N/A	1,719	1,163	5,879	0	0	0	0	
WG2	91355	R	C	2	N/A	N/A	2,200	85	6,475	0	0	0	0	
WG3	91355	R	E	2	N/A	N/A	5,789	887	2,094	0	0	0	0	
MU2	93111	R	C	2	N/A	N/A	2,356	0	6,404	478	0	0	1,127	Out-of-scope for GHG Subpart W surveys. Used the calculation method to extrapolate emissions since no measurements were taken.
MU3	93111	R	C	2	N/A	N/A	2,625	0	6,135	478	0	0	1,256	Out-of-scope for GHG Subpart W surveys. Used the calculation method to extrapolate emissions since no measurements were taken.
MU4	93111	R	C	2	N/A	N/A	6	0	8,754	478	0	0	3	Out-of-scope for GHG Subpart W surveys. Used the calculation method to extrapolate emissions since no measurements were taken.
MU5	93111	R	C	2	N/A	N/A	2,173	0	6,587	478	0	0	1,040	Out-of-scope for GHG Subpart W surveys. Used the calculation method to extrapolate emissions since no measurements were taken.
MU6	93111	R	C	2	N/A	N/A	1,530	0	7,230	478	0	0	732	Out-of-scope for GHG Subpart W surveys. Used the calculation method to extrapolate emissions since no measurements were taken.
MU7	93111	R	C	2	N/A	N/A	1,244	0	7,516	478	0	0	595	Out-of-scope for GHG Subpart W surveys. Used the calculation method to extrapolate emissions since no measurements were taken.
MU8	93111	R	C	2	N/A	N/A	1,018	0	7,742	478	0	0	487	Out-of-scope for GHG Subpart W surveys. Used the calculation method to extrapolate emissions since no measurements were taken.
MU9	93111	R	C	2	N/A	N/A	2,610	0	6,150	478	0	0	1,249	Out-of-scope for GHG Subpart W surveys. Used the calculation method to extrapolate emissions since no measurements were taken.
Sum Total													31,170	

SoCalGas, June 15, 2018

Rulemaking (R.) 15-01-008 to Adopt Rules and Procedures Governing Commission Regulated Natural Gas Pipelines and Facilities to Reduce Natural Gas Leaks Consistent with Senate Bill 1371, Leno.
In Response to Data Request, R15-01-008 2018 June Report

Appendix 7; Rev. 03/31/18

Notes:

Use a formula-derived value with the formula used in the Annual Emissions column. Do not use a copy and paste-as-value.

At the end of Annual Emissions Column, add a summation total in a cell for a column total, and then highlight orange

Underground Storage Blowdowns:

ID	Geographic Location	Source	Compressor Type	Number of Blowdown Events	Annual Emissions (Mscf)	Explanatory Notes / Comments
N/A	91326	O	N/A	2	1,144.8	Emergency Shutdowns
N/A	91326	O	N/A	9	139.1	Maintenance / Repair Blowdowns
N/A	91326	C	R	1	781.8	Electric Driven Compressor Commissioning
N/A	91326	C	R/C	20	238.9	Compressor Blowdowns
N/A	91326	W	N/A	1	12.5	Well Casing Blowdowns
N/A	91326	W	N/A	4	86.5	Well Open Casing
N/A	91326	O	N/A	12	12.1	Pneumatic Pumps
N/A	93111	W	N/A	141	705.2	Reservoir / Well Blowdowns
N/A	93111	P	N/A	1	3.8	Pipeline Blowdowns
N/A	93111	C	R	35	67.6	Compressor Blowdowns
N/A	93111	O	N/A	1	0.1	Native Gas Blowdowns
N/A	93111	N/A	N/A	25	0.7	Meter Change Outs. Estimated avg. gas vented = 27 scf/change-out.
N/A	91355	N/A	N/A	14	0.4	Meter Change Outs. Estimated avg. gas vented = 27 scf/change-out.
N/A	90293	N/A	N/A	48	0.1	Orifice Plate Meter Inspections. Estimated avg. gas vented = 2 scf/insp.
N/A	91355	N/A	N/A	24	0.6	Orifice Plate Meter Inspections. Estimated avg. gas vented = 23 scf/insp.
N/A	91355	C	R	10	92.2	Compressor Blowdowns
N/A	91355	C	R	1872	1,259.5	Compressor Starts
N/A	91355	O/P	N/A	99	199.6	Field and Pipeline Blowdowns > 100 PSI
N/A	91355	O/P	N/A	135	56.2	Field and Pipeline Blowdowns < 100 PSI
N/A	90640	W/P	N/A	Unk	2,310.0	Only aggregate data available
N/A	90293	P/O/W	N/A	Unk	141.7	Only aggregate data available
N/A	91326	N/A	N/A	222	1.6	Orifice Plate Meter Inspections. Estimated avg. gas vented = 7 scf/insp.
N/A	93111	N/A	N/A	28	0.2	Orifice Plate Meter Inspections. Estimated avg. gas vented = 7 scf/insp.
N/A	90293	N/A	N/A	158	3.2	Regulator Bi-annual Inspections. Estimated avg. gas vented = 20 scf/insp.
N/A	90640	N/A	N/A	18	0.4	Relief Valve Inspections - Isolation Valve - Estimated avg. gas vented = 20 scf/insp (annual test with Nitrogen, gas vented is volume of gas in valve).
N/A	91355	N/A	N/A	255	5.1	Relief Valve Inspections - Isolation Valve - Estimated avg. gas vented = 20 scf/insp (annual test with Nitrogen, gas vented is volume of gas in valve).
N/A	91326	N/A	N/A	366	7.3	Relief Valve Inspections - Isolation Valve - Estimated avg. gas vented = 20 scf/insp (annual test with Nitrogen, gas vented is volume of gas in valve).
N/A	93111	N/A	N/A	67	1.3	Relief Valve Inspections - Isolation Valve - Estimated avg. gas vented = 20 scf/insp (annual test with Nitrogen, gas vented is volume of gas in valve).
N/A	90293	N/A	N/A	99	2.0	Relief Valve Inspections - Isolation Valve - Estimated avg. gas vented = 20 scf/insp (annual test with Nitrogen, gas vented is volume of gas in valve).
N/A	93111	N/A	N/A	12	0.5	Relief Valve Inspections - No Isolation Valve - Estimated avg. gas vented = 40 scf/insp (annual test with Nitrogen, gas vented is volume of gas in valve).
N/A	91326	N/A	N/A	34	1.4	Relief Valve Inspections - No Isolation Valve - Estimated avg. gas vented = 40 scf/insp (annual test with Nitrogen, gas vented is volume of gas in valve).
				Sum Total	7,276.2	

SoCalGas, June 15, 2018

Rulemaking (R.) 15-01-008 to Adopt Rules and Procedures Governing Commission Regulated Natural Gas Pipelines and Facilities to Reduce Natural Gas Leaks Consistent with Senate Bill
 In Response to Data Request, R15-01-008 2018 June Report
 Appendix 7; Rev. 03/31/18

Notes:
 Use a formula-derived value with the formula used in the Annual Emissions column. Do not use a copy and paste-as-value.
 At the end of Annual Emissions Column, add a summation total in a cell for a column total, and then highlight orange
 The emissions captured on this tab represent the emissions associated with the operational design and function of the component. Any intentional release of natural gas for safety or maintenance purposes should be included on the

Underground Storage Component Vented Emissions (See note above):

ID/Number of Devices	Geographic Location	Device Type	Bleed Rate	Manufacturer	Pressure (psi)	Survey Date (MM/DD/YY)	Number of Days Emitting	Emission Factor, Engineering or Manufacturer's based Estimate of Emissions (Mscf/day/dev)	Annual Emissions (Mscf)	Explanatory Notes / Comments
110	91355	P	I	Misc.	N/A	N/A	365	0.0576	2,313	
48	93111	P	I	Misc.	N/A	N/A	365	0.0576	1,009	
3	93111	P	L	Misc.	N/A	N/A	365	0.0336	37	
170	91326	P	I	Misc.	N/A	N/A	365	0.0576	3,574	
Sum Total									6,933	

SoCalGas, June 15, 2018

Rulemaking (R.) 15-01-008 to Adopt Rules and Procedures Governing Commission Regulated Natural Gas Pipelines and Facilities to Reduce Natural Gas Leaks

In Response to Data Request, R15-01-008 2018 June Report

Appendix 7; Rev. 03/31/18

Notes:
 Use a formula-derived value with the formula used in the Annual Emissions column. Do not use a copy and paste-as-value.
 At the end of Annual Emissions Column, add a summation total in a cell for a column total, and then highlight orange
 The emissions captured on this tab represent the emissions associated unintentional leaks that if repaired would not leaking. If the component is releasing gas or "bleeding" as a result of its design or function

Underground Storage: Compressor and Component Fugitive Leaks (see note above):

12/31/2017 1/1/2017

ID	Geographic Location	Device Type	Bleed Rate	Manufacturer	Pressure (psi)	Discovery Date (MM/DD/YY)	Repair Date (MM/DD/YY)	Prior Survey Date (MM/DD/YY)	Number of Days Leaking	Emission Factor or Engineering Estimate (Mscf/day/dev)	Annual Emissions (Mscf)	Explanatory Notes / Comments
6363114	93111	C	N/A	Misc.	N/A	02/07/17	02/07/17	11/27/16	37	0.1358	5.0	
6387688	93111	V	N/A	Misc.	N/A	03/16/17	03/30/17	11/27/16	70	0.3562	24.8	
6387702	93111	V	N/A	Misc.	N/A	03/16/17	03/23/17	11/27/16	63	0.3562	22.3	
6387705	93111	V	N/A	Misc.	N/A	03/16/17	03/17/17	11/27/16	57	0.3562	20.1	
6387707	93111	V	N/A	Misc.	N/A	03/16/17	03/17/17	11/27/16	57	0.3562	20.1	
6389842	93111	C	N/A	Misc.	N/A	03/21/17	04/28/17	11/27/16	96	0.1358	13.0	
6412685	93111	C	N/A	Misc.	N/A	04/22/17	07/12/17	11/27/16	155	0.1358	21.1	
6431026	93111	V	N/A	Misc.	N/A	05/11/17	05/11/17	11/27/16	84	0.3562	29.7	
6431370	93111	C	N/A	Misc.	N/A	05/12/17	M	11/27/16	317	0.1358	43.1	Compressor leak
6432223	93111	V	N/A	Misc.	N/A	05/18/17	05/18/17	11/27/16	87	0.3562	31.0	
6436689	93111	C	N/A	Misc.	N/A	05/30/17	06/01/17	11/27/16	95	0.1358	12.9	Compressor leak
6463971	93111	C	N/A	Misc.	N/A	07/03/17	07/06/17	05/30/17	21	0.1358	2.9	Compressor leak
6480958	93111	C	N/A	Misc.	N/A	07/17/17	M	05/30/17	192	0.1358	26.1	Compressor leak
6480959	93111	C	N/A	Misc.	N/A	07/17/17	M	05/30/17	192	0.1358	26.1	
6480961	93111	V	N/A	Misc.	N/A	07/17/17	M	05/30/17	192	0.3562	68.4	
6502947	93111	C	N/A	Misc.	N/A	08/09/17	08/24/17	05/30/17	52	0.1358	7.0	
6502964	93111	C	N/A	Misc.	N/A	08/09/17	08/24/17	05/30/17	52	0.1358	7.0	
6502966	93111	C	N/A	Misc.	N/A	08/09/17	08/24/17	05/30/17	52	0.1358	7.0	
6502980	93111	C	N/A	Misc.	N/A	08/09/17	08/24/17	05/30/17	52	0.1358	7.0	
6531718	93111	C	N/A	Misc.	N/A	09/20/17	09/22/17	05/30/17	60	0.1358	8.1	
6535104	93111	V	N/A	Misc.	N/A	10/03/17	10/04/17	05/30/17	65	0.3562	23.2	Compressor leak
6535105	93111	V	N/A	Misc.	N/A	10/03/17	10/04/17	05/30/17	65	0.3562	23.2	Compressor leak
6535107	93111	V	N/A	Misc.	N/A	10/03/17	10/04/17	05/30/17	65	0.3562	23.2	
6550271	93111	M	N/A	Misc.	N/A	10/18/17	10/18/17	05/30/17	72	0.4639	33.2	
6553541	93111	C	N/A	Misc.	N/A	10/26/17	10/26/17	05/30/17	76	0.1358	10.3	
6601080	93111	C	N/A	Misc.	N/A	12/28/17	12/28/17	11/30/17	15	0.1358	2.0	
6311865	91355	V	N/A	Misc.	N/A	12/31/16	01/03/17	10/11/16	45	0.3562	15.8	
6311866	91355	V	N/A	Misc.	N/A	12/31/16	01/03/17	10/11/16	45	0.3562	15.8	
N/A	91355	OE	N/A	Misc.	N/A	01/01/17	M	10/11/16	406	0.4145	168.3	

ID	Geographic Location	Device Type	Bleed Rate	Manufacturer	Pressure (psi)	Discovery Date (MM/DD/YY)	Repair Date (MM/DD/YY)	Prior Survey Date (MM/DD/YY)	Number of Days Leaking	Emission Factor or Engineering Estimate (Mscf/day/dev)	Annual Emissions (Mscf)	Explanatory Notes / Comments
6454395	91355	V	N/A	Misc.	N/A	06/08/17	M	04/11/17	236	0.3562	84.1	
6454396	91355	V	N/A	Misc.	N/A	06/08/17	M	04/11/17	236	0.3562	84.1	
6454396	91355	V	N/A	Misc.	N/A	06/08/17	M	04/11/17	236	0.3562	84.1	
6454411	91355	V	N/A	Misc.	N/A	06/08/17	M	04/11/17	236	0.3562	84.1	
6454411	91355	V	N/A	Misc.	N/A	06/08/17	M	04/11/17	236	0.3562	84.1	
6454438	91355	C	N/A	Misc.	N/A	06/08/17	M	04/11/17	236	0.1358	32.1	
6454438	91355	C	N/A	Misc.	N/A	06/08/17	M	04/11/17	236	0.1358	32.1	
6454440	91355	V	N/A	Misc.	N/A	06/08/17	M	04/11/17	236	0.3562	84.1	
6454441	91355	V	N/A	Misc.	N/A	06/08/17	M	04/11/17	236	0.3562	84.1	
6454443	91355	V	N/A	Misc.	N/A	06/08/17	M	04/11/17	236	0.3562	84.1	
6454445	91355	V	N/A	Misc.	N/A	06/08/17	M	04/11/17	236	0.3562	84.1	
6454445	91355	V	N/A	Misc.	N/A	06/08/17	M	04/11/17	236	0.3562	84.1	
6454445	91355	V	N/A	Misc.	N/A	06/08/17	M	04/11/17	236	0.3562	84.1	
6454448	91355	V	N/A	Misc.	N/A	06/08/17	M	04/11/17	236	0.3562	84.1	
6454448	91355	V	N/A	Misc.	N/A	06/08/17	M	04/11/17	236	0.3562	84.1	
6454448	91355	V	N/A	Misc.	N/A	06/08/17	M	04/11/17	236	0.3562	84.1	
6454448	91355	V	N/A	Misc.	N/A	06/08/17	M	04/11/17	236	0.3562	84.1	
6454448	91355	V	N/A	Misc.	N/A	06/08/17	M	04/11/17	236	0.3562	84.1	
6454451	91355	V	N/A	Misc.	N/A	06/08/17	M	04/11/17	236	0.3562	84.1	
6454451	91355	V	N/A	Misc.	N/A	06/08/17	M	04/11/17	236	0.3562	84.1	
6454451	91355	V	N/A	Misc.	N/A	06/08/17	M	04/11/17	236	0.3562	84.1	
6454452	91355	V	N/A	Misc.	N/A	06/08/17	M	04/11/17	236	0.3562	84.1	
6454452	91355	V	N/A	Misc.	N/A	06/08/17	M	04/11/17	236	0.3562	84.1	
6454453	91355	V	N/A	Misc.	N/A	06/08/17	M	04/11/17	236	0.3562	84.1	
6454453	91355	V	N/A	Misc.	N/A	06/08/17	M	04/11/17	236	0.3562	84.1	
6454453	91355	C	N/A	Misc.	N/A	06/08/17	M	04/11/17	236	0.1358	32.1	
6454455	91355	V	N/A	Misc.	N/A	06/08/17	M	04/11/17	236	0.3562	84.1	
6454455	91355	V	N/A	Misc.	N/A	06/08/17	M	04/11/17	236	0.3562	84.1	
6454455	91355	V	N/A	Misc.	N/A	06/08/17	M	04/11/17	236	0.3562	84.1	
6454479	91355	V	N/A	Misc.	N/A	06/09/17	M	04/11/17	236	0.3562	83.9	
6454479	91355	V	N/A	Misc.	N/A	06/09/17	M	04/11/17	236	0.3562	83.9	
6454479	91355	V	N/A	Misc.	N/A	06/09/17	M	04/11/17	236	0.3562	83.9	
6454476	91355	V	N/A	Misc.	N/A	06/09/17	M	04/11/17	236	0.3562	83.9	
6454476	91355	V	N/A	Misc.	N/A	06/09/17	M	04/11/17	236	0.3562	83.9	
6454476	91355	V	N/A	Misc.	N/A	06/09/17	M	04/11/17	236	0.3562	83.9	
6454476	91355	V	N/A	Misc.	N/A	06/09/17	M	04/11/17	236	0.3562	83.9	
6454477	91355	V	N/A	Misc.	N/A	06/09/17	M	04/11/17	236	0.3562	83.9	
6454477	91355	V	N/A	Misc.	N/A	06/09/17	M	04/11/17	236	0.3562	83.9	
6454477	91355	V	N/A	Misc.	N/A	06/09/17	M	04/11/17	236	0.3562	83.9	
6454477	91355	C	N/A	Misc.	N/A	06/09/17	M	04/11/17	236	0.1358	32.0	
6454480	91355	V	N/A	Misc.	N/A	06/09/17	M	04/11/17	236	0.3562	83.9	
6454481	91355	V	N/A	Misc.	N/A	06/09/17	M	04/11/17	236	0.3562	83.9	
6454481	91355	V	N/A	Misc.	N/A	06/09/17	M	04/11/17	236	0.3562	83.9	
6454484	91355	V	N/A	Misc.	N/A	06/09/17	M	04/11/17	236	0.3562	83.9	
6454484	91355	V	N/A	Misc.	N/A	06/09/17	M	04/11/17	236	0.3562	83.9	

ID	Geographic Location	Device Type	Bleed Rate	Manufacturer	Pressure (psi)	Discovery Date (MM/DD/YY)	Repair Date (MM/DD/YY)	Prior Survey Date (MM/DD/YY)	Number of Days Leaking	Emission Factor or Engineering Estimate (Mscf/day/dev)	Annual Emissions (Mscf)	Explanatory Notes / Comments
6454485	91355	V	N/A	Misc.	N/A	06/09/17	M	04/11/17	236	0.3562	83.9	
6454485	91355	V	N/A	Misc.	N/A	06/09/17	M	04/11/17	236	0.3562	83.9	
6454485	91355	V	N/A	Misc.	N/A	06/09/17	M	04/11/17	236	0.3562	83.9	
6454485	91355	V	N/A	Misc.	N/A	06/09/17	M	04/11/17	236	0.3562	83.9	
6454491	91355	V	N/A	Misc.	N/A	06/09/17	M	04/11/17	236	0.3562	83.9	
6454491	91355	V	N/A	Misc.	N/A	06/09/17	M	04/11/17	236	0.3562	83.9	
6454496	91355	V	N/A	Misc.	N/A	06/09/17	M	04/11/17	236	0.3562	83.9	
6454496	91355	V	N/A	Misc.	N/A	06/09/17	M	04/11/17	236	0.3562	83.9	
6454496	91355	V	N/A	Misc.	N/A	06/09/17	M	04/11/17	236	0.3562	83.9	
6454498	91355	V	N/A	Misc.	N/A	06/09/17	M	04/11/17	236	0.3562	83.9	
6454499	91355	V	N/A	Misc.	N/A	06/09/17	M	04/11/17	236	0.3562	83.9	
6454499	91355	V	N/A	Misc.	N/A	06/09/17	M	04/11/17	236	0.3562	83.9	
6454499	91355	V	N/A	Misc.	N/A	06/09/17	M	04/11/17	236	0.3562	83.9	
6454500	91355	V	N/A	Misc.	N/A	06/09/17	M	04/11/17	236	0.3562	83.9	
6454501	91355	V	N/A	Misc.	N/A	06/09/17	M	04/11/17	236	0.3562	83.9	
6454501	91355	V	N/A	Misc.	N/A	06/09/17	M	04/11/17	236	0.3562	83.9	
6454501	91355	C	N/A	Misc.	N/A	06/09/17	M	04/11/17	236	0.1358	32.0	
6454502	91355	V	N/A	Misc.	N/A	06/09/17	M	04/11/17	236	0.3562	83.9	
6454503	91355	V	N/A	Misc.	N/A	06/09/17	M	04/11/17	236	0.3562	83.9	
6454503	91355	C	N/A	Misc.	N/A	06/09/17	M	04/11/17	236	0.1358	32.0	
6454505	91355	V	N/A	Misc.	N/A	06/09/17	M	04/11/17	236	0.3562	83.9	
6454507	91355	V	N/A	Misc.	N/A	06/09/17	M	04/11/17	236	0.3562	83.9	
6454507	91355	V	N/A	Misc.	N/A	06/09/17	M	04/11/17	236	0.3562	83.9	
6454508	91355	V	N/A	Misc.	N/A	06/09/17	M	04/11/17	236	0.3562	83.9	
6454508	91355	V	N/A	Misc.	N/A	06/09/17	M	04/11/17	236	0.3562	83.9	
6454509	91355	V	N/A	Misc.	N/A	06/09/17	M	04/11/17	236	0.3562	83.9	
6454510	91355	C	N/A	Misc.	N/A	06/09/17	M	04/11/17	236	0.1358	32.0	
6454510	91355	C	N/A	Misc.	N/A	06/09/17	M	04/11/17	236	0.1358	32.0	
6459817	91355	C	N/A	Misc.	N/A	06/23/17	07/07/17	04/11/17	52	0.1358	7.0	
6463986	91355	V	N/A	Misc.	N/A	07/03/17	M	04/11/17	224	0.3562	79.6	
6463987	91355	C	N/A	Misc.	N/A	07/03/17	11/13/17	04/11/17	176	0.1358	23.8	
6463988	91355	V	N/A	Misc.	N/A	07/03/17	M	04/11/17	224	0.3562	79.6	
6463988	91355	V	N/A	Misc.	N/A	07/03/17	M	04/11/17	224	0.3562	79.6	
6463988	91355	V	N/A	Misc.	N/A	07/03/17	M	04/11/17	224	0.3562	79.6	
6463988	91355	C	N/A	Misc.	N/A	07/03/17	M	04/11/17	224	0.1358	30.4	
6463988	91355	C	N/A	Misc.	N/A	07/03/17	M	04/11/17	224	0.1358	30.4	
6463988	91355	C	N/A	Misc.	N/A	07/03/17	M	04/11/17	224	0.1358	30.4	
6463989	91355	V	N/A	Misc.	N/A	07/03/17	M	04/11/17	224	0.3562	79.6	
6463990	91355	V	N/A	Misc.	N/A	07/03/17	M	04/11/17	224	0.3562	79.6	
6463991	91355	V	N/A	Misc.	N/A	07/03/17	M	04/11/17	224	0.3562	79.6	
6463992	91355	V	N/A	Misc.	N/A	07/03/17	10/29/17	04/11/17	161	0.3562	57.2	
6463994	91355	V	N/A	Misc.	N/A	07/03/17	M	04/11/17	224	0.3562	79.6	
6463994	91355	V	N/A	Misc.	N/A	07/03/17	M	04/11/17	224	0.3562	79.6	
6463994	91355	V	N/A	Misc.	N/A	07/03/17	M	04/11/17	224	0.3562	79.6	

ID	Geographic Location	Device Type	Bleed Rate	Manufacturer	Pressure (psi)	Discovery Date (MM/DD/YY)	Repair Date (MM/DD/YY)	Prior Survey Date (MM/DD/YY)	Number of Days Leaking	Emission Factor or Engineering Estimate (Mscf/day/dev)	Annual Emissions (Mscf)	Explanatory Notes / Comments
6463994	91355	C	N/A	Misc.	N/A	07/03/17	M	04/11/17	224	0.1358	30.4	
6463994	91355	C	N/A	Misc.	N/A	07/03/17	M	04/11/17	224	0.1358	30.4	
6463995	91355	V	N/A	Misc.	N/A	07/03/17	11/13/17	04/11/17	176	0.3562	62.5	
6464017	91355	V	N/A	Misc.	N/A	07/05/17	M	04/11/17	223	0.3562	79.2	
6464017	91355	V	N/A	Misc.	N/A	07/05/17	M	04/11/17	223	0.3562	79.2	
6464018	91355	V	N/A	Misc.	N/A	07/05/17	M	04/11/17	223	0.3562	79.2	Compressor leak
6464018	91355	V	N/A	Misc.	N/A	07/05/17	M	04/11/17	223	0.3562	79.2	Compressor leak
6464019	91355	C	N/A	Misc.	N/A	07/05/17	M	04/11/17	223	0.1358	30.2	
6464020	91355	V	N/A	Misc.	N/A	07/05/17	10/23/17	04/11/17	154	0.3562	54.7	Compressor leak
6464022	91355	V	N/A	Misc.	N/A	07/05/17	M	04/11/17	223	0.3562	79.2	Compressor leak
6464022	91355	V	N/A	Misc.	N/A	07/05/17	M	04/11/17	223	0.3562	79.2	Compressor leak
6464022	91355	V	N/A	Misc.	N/A	07/05/17	M	04/11/17	223	0.3562	79.2	Compressor leak
6464023	91355	V	N/A	Misc.	N/A	07/05/17	10/23/17	04/11/17	154	0.3562	54.7	Compressor leak
6464023	91355	V	N/A	Misc.	N/A	07/05/17	10/23/17	04/11/17	154	0.3562	54.7	Compressor leak
6464024	91355	V	N/A	Misc.	N/A	07/05/17	M	04/11/17	223	0.3562	79.2	Compressor leak
6464024	91355	V	N/A	Misc.	N/A	07/05/17	M	04/11/17	223	0.3562	79.2	Compressor leak
6464024	91355	V	N/A	Misc.	N/A	07/05/17	M	04/11/17	223	0.3562	79.2	Compressor leak
6464064	91355	C	N/A	Misc.	N/A	07/07/17	07/11/17	04/11/17	49	0.1358	6.6	
6483955	91355	V	N/A	Misc.	N/A	07/21/17	10/20/17	04/11/17	143	0.3562	50.8	
6483957	91355	C	N/A	Misc.	N/A	07/21/17	M	04/11/17	215	0.1358	29.1	
6483957	91355	C	N/A	Misc.	N/A	07/21/17	M	04/11/17	215	0.1358	29.1	
6483957	91355	C	N/A	Misc.	N/A	07/21/17	M	04/11/17	215	0.1358	29.1	
6483957	91355	C	N/A	Misc.	N/A	07/21/17	M	04/11/17	215	0.1358	29.1	
6502849	91355	C	N/A	Misc.	N/A	08/07/17	08/08/17	04/11/17	61	0.1358	8.3	
6528258	91355	V	N/A	Misc.	N/A	09/09/17	M	04/11/17	190	0.3562	67.5	
6326760	91326	C	N/A	Misc.	N/A	01/09/17	01/10/17	06/22/16	103	0.1358	13.9	
6329627	91326	V	N/A	Misc.	N/A	01/11/17	01/11/17	06/22/16	103	0.3562	36.5	
6330373	91326	C	N/A	Misc.	N/A	01/15/17	01/25/17	06/22/16	115	0.1358	15.6	
6330381	91326	C	N/A	Misc.	N/A	01/16/17	01/18/17	06/22/16	107	0.1358	14.5	
6330400	91326	C	N/A	Misc.	N/A	01/17/17	M	06/22/16	454	0.1358	61.6	
6332891	91326	C	N/A	Misc.	N/A	01/22/17	05/24/17	06/22/16	230	0.1358	31.2	
6335572	91326	C	N/A	Misc.	N/A	01/25/17	04/04/17	06/22/16	179	0.1358	24.2	
6335595	91326	C	N/A	Misc.	N/A	01/25/17	01/25/17	06/22/16	110	0.1358	14.9	
6335596	91326	C	N/A	Misc.	N/A	01/25/17	01/25/17	06/22/16	110	0.1358	14.9	
6335599	91326	V	N/A	Misc.	N/A	01/25/17	01/27/17	06/22/16	112	0.3562	39.7	
6335600	91326	V	N/A	Misc.	N/A	01/25/17	01/25/17	06/22/16	110	0.3562	39.0	
6335639	91326	V	N/A	Misc.	N/A	01/26/17	01/27/17	06/22/16	111	0.3562	39.5	
6347845	91326	C	N/A	Misc.	N/A	02/01/17	02/01/17	01/25/17	5	0.1358	0.6	
6347913	91326	V	N/A	Misc.	N/A	02/03/17	02/06/17	01/25/17	9	0.3562	3.0	
6362969	91326	V	N/A	Misc.	N/A	02/03/17	02/08/17	01/25/17	11	0.3562	3.7	
6363131	91326	V	N/A	Misc.	N/A	02/07/17	02/08/17	01/25/17	9	0.3562	3.0	
6363298	91326	V	N/A	Misc.	N/A	02/09/17	02/10/17	01/25/17	10	0.3562	3.4	
6363254	91326	C	N/A	Misc.	N/A	02/10/17	M	01/25/17	333	0.1358	45.2	

ID	Geographic Location	Device Type	Bleed Rate	Manufacturer	Pressure (psi)	Discovery Date (MM/DD/YY)	Repair Date (MM/DD/YY)	Prior Survey Date (MM/DD/YY)	Number of Days Leaking	Emission Factor or Engineering Estimate (Mscf/day/dev)	Annual Emissions (Mscf)	Explanatory Notes / Comments
6363301	91326	C	N/A	Misc.	N/A	02/10/17	02/10/17	01/25/17	9	0.1358	1.2	
6363302	91326	V	N/A	Misc.	N/A	02/10/17	02/13/17	01/25/17	12	0.3562	4.3	
6369913	91326	M	N/A	Misc.	N/A	02/26/17	02/28/17	01/25/17	19	0.4639	8.8	
6386155	91326	V	N/A	Misc.	N/A	03/07/17	03/07/17	01/25/17	22	0.3562	7.7	
6387598	91326	V	N/A	Misc.	N/A	03/10/17	03/14/17	01/25/17	27	0.3562	9.6	
6387613	91326	V	N/A	Misc.	N/A	03/13/17	03/17/17	01/25/17	29	0.3562	10.2	
6387654	91326	V	N/A	Misc.	N/A	03/13/17	03/17/17	01/25/17	29	0.3562	10.2	
6387550	91326	C	N/A	Misc.	N/A	03/13/17	03/17/17	01/25/17	29	0.1358	3.9	
6387659	91326	V	N/A	Misc.	N/A	03/14/17	03/25/17	01/25/17	36	0.3562	12.8	
6387568	91326	C	N/A	Misc.	N/A	03/14/17	M	01/25/17	317	0.1358	43.1	
6387569	91326	C	N/A	Misc.	N/A	03/14/17	M	01/25/17	317	0.1358	43.1	
6387570	91326	C	N/A	Misc.	N/A	03/14/17	M	01/25/17	317	0.1358	43.1	
6387571	91326	C	N/A	Misc.	N/A	03/14/17	M	01/25/17	317	0.1358	43.1	
6389835	91326	V	N/A	Misc.	N/A	03/18/17	03/22/17	01/25/17	31	0.3562	11.0	
6389111	91326	V	N/A	Misc.	N/A	03/19/17	03/21/17	01/25/17	30	0.3562	10.5	
6389837	91326	V	N/A	Misc.	N/A	03/20/17	03/22/17	01/25/17	30	0.3562	10.7	
6393466	91326	V	N/A	Misc.	N/A	03/24/17	03/25/17	01/25/17	31	0.3562	11.0	
6393467	91326	V	N/A	Misc.	N/A	03/24/17	03/25/17	01/25/17	31	0.3562	11.0	
6393468	91326	V	N/A	Misc.	N/A	03/24/17	03/25/17	01/25/17	31	0.3562	11.0	
6393462	91326	C	N/A	Misc.	N/A	03/24/17	03/27/17	01/25/17	33	0.1358	4.5	
6393463	91326	V	N/A	Misc.	N/A	03/24/17	03/27/17	01/25/17	33	0.3562	11.8	
6393524	91326	V	N/A	Misc.	N/A	03/27/17	04/14/17	01/25/17	50	0.3562	17.6	
6393811	91326	C	N/A	Misc.	N/A	03/30/17	04/04/17	01/25/17	38	0.1358	5.2	
6395468	91326	V	N/A	Misc.	N/A	04/06/17	04/10/17	01/25/17	41	0.3562	14.4	
6395453	91326	V	N/A	Misc.	N/A	04/07/17	04/11/17	01/25/17	41	0.3562	14.6	
6408031	91326	C	N/A	Misc.	N/A	04/09/17	04/11/17	01/25/17	40	0.1358	5.4	
6408026	91326	C	N/A	Misc.	N/A	04/09/17	04/10/17	01/25/17	39	0.1358	5.3	
6414932	91326	V	N/A	Misc.	N/A	04/11/17	04/15/17	01/25/17	43	0.3562	15.3	
6415872	91326	V	N/A	Misc.	N/A	04/12/17	04/14/17	01/25/17	42	0.3562	14.8	
6415875	91326	C	N/A	Misc.	N/A	04/12/17	04/17/17	01/25/17	45	0.1358	6.0	
6415874	91326	V	N/A	Misc.	N/A	04/14/17	04/17/17	01/25/17	44	0.3562	15.5	
6414929	91326	C	N/A	Misc.	N/A	04/14/17	04/15/17	01/25/17	42	0.1358	5.6	
6415866	91326	C	N/A	Misc.	N/A	04/14/17	04/14/17	01/25/17	41	0.1358	5.5	
6415867	91326	C	N/A	Misc.	N/A	04/14/17	04/17/17	01/25/17	44	0.1358	5.9	
6415868	91326	V	N/A	Misc.	N/A	04/14/17	04/17/17	01/25/17	44	0.3562	15.5	
6414928	91326	V	N/A	Misc.	N/A	04/17/17	04/17/17	01/25/17	42	0.3562	15.0	
6414933	91326	C	N/A	Misc.	N/A	04/17/17	04/18/17	01/25/17	43	0.1358	5.8	
6416037	91326	V	N/A	Misc.	N/A	04/17/17	04/18/17	01/25/17	43	0.3562	15.3	
6416038	91326	V	N/A	Misc.	N/A	04/17/17	04/18/17	01/25/17	43	0.3562	15.3	
6415876	91326	V	N/A	Misc.	N/A	04/18/17	04/20/17	01/25/17	45	0.3562	15.8	
6415877	91326	V	N/A	Misc.	N/A	04/18/17	04/19/17	01/25/17	44	0.3562	15.5	
6414934	91326	C	N/A	Misc.	N/A	04/18/17	04/21/17	01/25/17	46	0.1358	6.2	
6415882	91326	V	N/A	Misc.	N/A	04/18/17	04/19/17	01/25/17	44	0.3562	15.5	

ID	Geographic Location	Device Type	Bleed Rate	Manufacturer	Pressure (psi)	Discovery Date (MM/DD/YY)	Repair Date (MM/DD/YY)	Prior Survey Date (MM/DD/YY)	Number of Days Leaking	Emission Factor or Engineering Estimate (Mscf/day/dev)	Annual Emissions (Mscf)	Explanatory Notes / Comments
6414925	91326	V	N/A	Misc.	N/A	04/19/17	04/20/17	01/25/17	44	0.3562	15.7	
6414926	91326	V	N/A	Misc.	N/A	04/19/17	04/21/17	01/25/17	45	0.3562	16.0	
6414927	91326	V	N/A	Misc.	N/A	04/19/17	04/21/17	01/25/17	45	0.3562	16.0	
6408902	91326	C	N/A	Misc.	N/A	04/19/17	04/19/17	01/25/17	43	0.1358	5.8	
6408905	91326	V	N/A	Misc.	N/A	04/19/17	04/20/17	01/25/17	44	0.3562	15.7	
6409029	91326	V	N/A	Misc.	N/A	04/19/17	04/20/17	01/25/17	44	0.3562	15.7	
6417090	91326	C	N/A	Misc.	N/A	04/19/17	04/24/17	01/25/17	48	0.1358	6.5	
6414891	91326	V	N/A	Misc.	N/A	04/20/17	04/21/17	01/25/17	45	0.3562	15.8	
6414908	91326	V	N/A	Misc.	N/A	04/20/17	04/29/17	01/25/17	53	0.3562	18.7	
6414877	91326	V	N/A	Misc.	N/A	04/21/17	04/25/17	01/25/17	48	0.3562	17.1	
6414879	91326	C	N/A	Misc.	N/A	04/21/17	04/29/17	01/25/17	52	0.1358	7.1	
6414881	91326	C	N/A	Misc.	N/A	04/22/17	05/04/17	01/25/17	57	0.1358	7.7	
6414882	91326	V	N/A	Misc.	N/A	04/22/17	04/27/17	01/25/17	50	0.3562	17.6	
6414883	91326	C	N/A	Misc.	N/A	04/23/17	04/28/17	01/25/17	50	0.1358	6.8	
6414887	91326	V	N/A	Misc.	N/A	04/23/17	04/26/17	01/25/17	48	0.3562	17.1	
6414905	91326	C	N/A	Misc.	N/A	04/24/17	04/26/17	01/25/17	48	0.1358	6.5	
6415861	91326	V	N/A	Misc.	N/A	04/26/17	04/28/17	01/25/17	49	0.3562	17.3	
6415862	91326	C	N/A	Misc.	N/A	04/26/17	04/27/17	01/25/17	48	0.1358	6.5	
6417094	91326	C	N/A	Misc.	N/A	05/01/17	05/05/17	04/28/17	7	0.1358	0.9	
6417270	91326	C	N/A	Misc.	N/A	05/01/17	M	04/28/17	247	0.1358	33.5	
6417251	91326	C	N/A	Misc.	N/A	05/02/17	05/03/17	04/28/17	4	0.1358	0.5	
6417255	91326	V	N/A	Misc.	N/A	05/02/17	05/03/17	04/28/17	4	0.3562	1.4	
6417257	91326	C	N/A	Misc.	N/A	05/02/17	05/03/17	04/28/17	4	0.1358	0.5	
6417258	91326	V	N/A	Misc.	N/A	05/02/17	05/03/17	04/28/17	4	0.3562	1.4	
6417260	91326	V	N/A	Misc.	N/A	05/02/17	05/03/17	04/28/17	4	0.3562	1.4	
6417261	91326	V	N/A	Misc.	N/A	05/02/17	05/03/17	04/28/17	4	0.3562	1.4	
6417262	91326	V	N/A	Misc.	N/A	05/02/17	05/03/17	04/28/17	4	0.3562	1.4	
6417343	91326	V	N/A	Misc.	N/A	05/03/17	05/05/17	04/28/17	6	0.3562	2.0	
6417352	91326	V	N/A	Misc.	N/A	05/03/17	05/04/17	04/28/17	5	0.3562	1.6	
6417353	91326	V	N/A	Misc.	N/A	05/04/17	05/09/17	04/28/17	9	0.3562	3.2	
6427358	91326	V	N/A	Misc.	N/A	05/05/17	05/08/17	04/28/17	8	0.3562	2.7	
6430509	91326	C	N/A	Misc.	N/A	05/05/17	05/16/17	04/28/17	16	0.1358	2.1	
6430534	91326	V	N/A	Misc.	N/A	05/05/17	05/08/17	04/28/17	8	0.3562	2.7	
6430543	91326	C	N/A	Misc.	N/A	05/05/17	05/08/17	04/28/17	8	0.1358	1.0	
6430544	91326	V	N/A	Misc.	N/A	05/05/17	05/08/17	04/28/17	8	0.3562	2.7	
6430545	91326	V	N/A	Misc.	N/A	05/05/17	05/08/17	04/28/17	8	0.3562	2.7	
6430546	91326	V	N/A	Misc.	N/A	05/05/17	05/09/17	04/28/17	9	0.3562	3.0	
6430548	91326	C	N/A	Misc.	N/A	05/05/17	05/08/17	04/28/17	8	0.1358	1.0	
6430555	91326	V	N/A	Misc.	N/A	05/06/17	05/08/17	04/28/17	7	0.3562	2.5	
6430556	91326	C	N/A	Misc.	N/A	05/06/17	05/08/17	04/28/17	7	0.1358	1.0	
6430549	91326	C	N/A	Misc.	N/A	05/06/17	05/16/17	04/28/17	15	0.1358	2.0	
6430550	91326	V	N/A	Misc.	N/A	05/06/17	05/08/17	04/28/17	7	0.3562	2.5	

ID	Geographic Location	Device Type	Bleed Rate	Manufacturer	Pressure (psi)	Discovery Date (MM/DD/YY)	Repair Date (MM/DD/YY)	Prior Survey Date (MM/DD/YY)	Number of Days Leaking	Emission Factor or Engineering Estimate (Mscf/day/dev)	Annual Emissions (Mscf)	Explanatory Notes / Comments
N/A	91326	V	N/A	Misc.	N/A	06/26/17	M	04/28/17	219	0.3562	77.8	GHG Subpart W Survey
N/A	91326	V	N/A	Misc.	N/A	06/26/17	M	04/28/17	219	0.3562	77.8	GHG Subpart W Survey
N/A	91326	V	N/A	Misc.	N/A	06/26/17	M	04/28/17	219	0.3562	77.8	GHG Subpart W Survey
N/A	91326	V	N/A	Misc.	N/A	06/26/17	M	04/28/17	219	0.3562	77.8	GHG Subpart W Survey
N/A	91326	V	N/A	Misc.	N/A	06/26/17	M	04/28/17	219	0.3562	77.8	GHG Subpart W Survey
N/A	91326	V	N/A	Misc.	N/A	06/26/17	M	04/28/17	219	0.3562	77.8	GHG Subpart W Survey
N/A	91326	O	N/A	Misc.	N/A	06/26/17	M	04/28/17	219	0.0984	21.5	GHG Subpart W Survey
N/A	91326	O	N/A	Misc.	N/A	06/26/17	M	04/28/17	219	0.0984	21.5	GHG Subpart W Survey
N/A	91326	O	N/A	Misc.	N/A	06/26/17	M	04/28/17	219	0.0984	21.5	GHG Subpart W Survey
6462997	91326	V	N/A	Misc.	N/A	06/26/17	06/27/17	04/28/17	32	0.3562	11.2	Compressor leak
6462998	91326	C	N/A	Misc.	N/A	06/26/17	M	04/28/17	219	0.1358	29.7	Compressor leak
6463000	91326	V	N/A	Misc.	N/A	06/26/17	06/27/17	04/28/17	32	0.3562	11.2	Compressor leak
6463001	91326	V	N/A	Misc.	N/A	06/26/17	06/27/17	04/28/17	32	0.3562	11.2	Compressor leak
6463002	91326	V	N/A	Misc.	N/A	06/26/17	06/27/17	04/28/17	32	0.3562	11.2	Compressor leak
N/A	91326	C	N/A	Misc.	N/A	06/27/17	M	04/28/17	218	0.1358	29.6	GHG Subpart W Survey
N/A	91326	C	N/A	Misc.	N/A	06/27/17	M	04/28/17	218	0.1358	29.6	GHG Subpart W Survey
N/A	91326	C	N/A	Misc.	N/A	06/27/17	M	04/28/17	218	0.1358	29.6	GHG Subpart W Survey
N/A	91326	C	N/A	Misc.	N/A	06/27/17	M	04/28/17	218	0.1358	29.6	GHG Subpart W Survey
N/A	91326	C	N/A	Misc.	N/A	06/27/17	M	04/28/17	218	0.1358	29.6	GHG Subpart W Survey
N/A	91326	C	N/A	Misc.	N/A	06/27/17	M	04/28/17	218	0.1358	29.6	GHG Subpart W Survey
N/A	91326	C	N/A	Misc.	N/A	06/27/17	M	04/28/17	218	0.1358	29.6	GHG Subpart W Survey
N/A	91326	C	N/A	Misc.	N/A	06/27/17	M	04/28/17	218	0.1358	29.6	GHG Subpart W Survey
6463003	91326	V	N/A	Misc.	N/A	06/27/17	M	04/28/17	218	0.3562	77.6	Compressor leak
6463004	91326	V	N/A	Misc.	N/A	06/27/17	06/29/17	04/28/17	33	0.3562	11.8	Compressor leak
6463005	91326	C	N/A	Misc.	N/A	06/27/17	06/30/17	04/28/17	34	0.1358	4.6	
6463006	91326	C	N/A	Misc.	N/A	06/27/17	06/30/17	04/28/17	34	0.1358	4.6	
6463007	91326	V	N/A	Misc.	N/A	06/27/17	06/30/17	04/28/17	34	0.3562	12.1	
6463932	91326	C	N/A	Misc.	N/A	06/28/17	06/28/17	04/28/17	32	0.1358	4.3	
6463933	91326	C	N/A	Misc.	N/A	06/28/17	06/28/17	04/28/17	32	0.1358	4.3	
6463934	91326	C	N/A	Misc.	N/A	06/28/17	06/28/17	04/28/17	32	0.1358	4.3	
6463935	91326	C	N/A	Misc.	N/A	06/28/17	06/28/17	04/28/17	32	0.1358	4.3	
6463936	91326	V	N/A	Misc.	N/A	06/28/17	06/28/17	04/28/17	32	0.3562	11.2	
6463937	91326	C	N/A	Misc.	N/A	06/28/17	06/28/17	04/28/17	32	0.1358	4.3	
6463946	91326	V	N/A	Misc.	N/A	06/28/17	07/01/17	04/28/17	35	0.3562	12.3	Compressor leak
6463949	91326	V	N/A	Misc.	N/A	06/28/17	07/01/17	04/28/17	35	0.3562	12.3	
6463950	91326	C	N/A	Misc.	N/A	06/28/17	07/01/17	04/28/17	35	0.1358	4.7	
6463951	91326	V	N/A	Misc.	N/A	06/28/17	07/01/17	04/28/17	35	0.3562	12.3	
6463938	91326	V	N/A	Misc.	N/A	06/29/17	06/30/17	04/28/17	33	0.3562	11.8	
6463939	91326	V	N/A	Misc.	N/A	06/29/17	06/30/17	04/28/17	33	0.3562	11.8	
6463940	91326	V	N/A	Misc.	N/A	06/29/17	06/29/17	04/28/17	32	0.3562	11.4	
6463941	91326	V	N/A	Misc.	N/A	06/29/17	07/01/17	04/28/17	34	0.3562	12.1	
6463942	91326	V	N/A	Misc.	N/A	06/29/17	07/01/17	04/28/17	34	0.3562	12.1	

ID	Geographic Location	Device Type	Bleed Rate	Manufacturer	Pressure (psi)	Discovery Date (MM/DD/YY)	Repair Date (MM/DD/YY)	Prior Survey Date (MM/DD/YY)	Number of Days Leaking	Emission Factor or Engineering Estimate (Mscf/day/dev)	Annual Emissions (Mscf)	Explanatory Notes / Comments
6463184	91326	V	N/A	Misc.	N/A	06/29/17	06/30/17	04/28/17	33	0.3562	11.8	
6464002	91326	V	N/A	Misc.	N/A	07/03/17	07/05/17	06/29/17	5	0.3562	1.8	
6464003	91326	V	N/A	Misc.	N/A	07/03/17	07/05/17	06/29/17	5	0.3562	1.8	
6464004	91326	V	N/A	Misc.	N/A	07/03/17	07/05/17	06/29/17	5	0.3562	1.8	
6464048	91326	V	N/A	Misc.	N/A	07/05/17	07/10/17	06/29/17	9	0.3562	3.2	
6464060	91326	V	N/A	Misc.	N/A	07/05/17	07/07/17	06/29/17	6	0.3562	2.1	
6464061	91326	C	N/A	Misc.	N/A	07/06/17	07/10/17	06/29/17	9	0.1358	1.2	
6464062	91326	C	N/A	Misc.	N/A	07/06/17	07/10/17	06/29/17	9	0.1358	1.2	
6464063	91326	V	N/A	Misc.	N/A	07/06/17	07/08/17	06/29/17	7	0.3562	2.3	
6479483	91326	C	N/A	Misc.	N/A	07/09/17	M	06/29/17	181	0.1358	24.6	
6480691	91326	C	N/A	Misc.	N/A	07/10/17	07/12/17	06/29/17	9	0.1358	1.2	
6480692	91326	V	N/A	Misc.	N/A	07/10/17	07/12/17	06/29/17	9	0.3562	3.0	
6480704	91326	C	N/A	Misc.	N/A	07/10/17	07/12/17	06/29/17	9	0.1358	1.2	
6480705	91326	M	N/A	Misc.	N/A	07/10/17	07/12/17	06/29/17	9	0.4639	3.9	
6480706	91326	C	N/A	Misc.	N/A	07/10/17	07/12/17	06/29/17	9	0.1358	1.2	
6480628	91326	V	N/A	Misc.	N/A	07/10/17	07/12/17	06/29/17	9	0.3562	3.0	
6480629	91326	C	N/A	Misc.	N/A	07/10/17	07/12/17	06/29/17	9	0.1358	1.2	
6481020	91326	V	N/A	Misc.	N/A	07/11/17	07/12/17	06/29/17	8	0.3562	2.8	
6481021	91326	V	N/A	Misc.	N/A	07/11/17	07/12/17	06/29/17	8	0.3562	2.8	
6480708	91326	C	N/A	Misc.	N/A	07/11/17	07/12/17	06/29/17	8	0.1358	1.1	
6480880	91326	C	N/A	Misc.	N/A	07/11/17	07/12/17	06/29/17	8	0.1358	1.1	
6480881	91326	V	N/A	Misc.	N/A	07/11/17	07/14/17	06/29/17	10	0.3562	3.6	
N/A	91326	V	N/A	Misc.	N/A	07/12/17	M	06/29/17	180	0.3562	63.9	GHG Subpart W Survey
6481015	91326	V	N/A	Misc.	N/A	07/12/17	M	06/29/17	180	0.3562	63.9	
6481017	91326	V	N/A	Misc.	N/A	07/12/17	11/02/17	06/29/17	121	0.3562	42.9	
6481018	91326	V	N/A	Misc.	N/A	07/12/17	07/14/17	06/29/17	10	0.3562	3.4	
6480589	91326	C	N/A	Misc.	N/A	07/12/17	08/11/17	06/29/17	38	0.1358	5.1	
6480707	91326	V	N/A	Misc.	N/A	07/12/17	07/12/17	06/29/17	8	0.3562	2.7	
6485946	91326	C	N/A	Misc.	N/A	07/17/17	07/18/17	06/29/17	11	0.1358	1.5	
6484671	91326	C	N/A	Misc.	N/A	07/17/17	07/18/17	06/29/17	11	0.1358	1.5	
6482775	91326	V	N/A	Misc.	N/A	07/18/17	07/19/17	06/29/17	12	0.3562	4.1	
6482776	91326	C	N/A	Misc.	N/A	07/18/17	07/19/17	06/29/17	12	0.1358	1.6	
6482777	91326	V	N/A	Misc.	N/A	07/18/17	07/21/17	06/29/17	14	0.3562	4.8	
6482778	91326	C	N/A	Misc.	N/A	07/18/17	07/19/17	06/29/17	12	0.1358	1.6	
6485947	91326	V	N/A	Misc.	N/A	07/20/17	07/24/17	06/29/17	16	0.3562	5.5	
6485949	91326	V	N/A	Misc.	N/A	07/24/17	07/25/17	07/21/17	4	0.3562	1.2	
6486272	91326	V	N/A	Misc.	N/A	07/25/17	M	07/21/17	162	0.3562	57.7	
6486273	91326	V	N/A	Misc.	N/A	07/25/17	M	07/21/17	162	0.3562	57.7	
6502938	91326	V	N/A	Misc.	N/A	07/26/17	08/09/17	07/21/17	18	0.3562	6.2	
6502939	91326	V	N/A	Misc.	N/A	07/26/17	08/09/17	07/21/17	18	0.3562	6.2	
6502940	91326	V	N/A	Misc.	N/A	07/26/17	08/09/17	07/21/17	18	0.3562	6.2	
6486286	91326	C	N/A	Misc.	N/A	07/27/17	08/01/17	07/21/17	9	0.1358	1.2	
6487245	91326	C	N/A	Misc.	N/A	07/30/17	08/01/17	07/21/17	8	0.1358	1.0	

ID	Geographic Location	Device Type	Bleed Rate	Manufacturer	Pressure (psi)	Discovery Date (MM/DD/YY)	Repair Date (MM/DD/YY)	Prior Survey Date (MM/DD/YY)	Number of Days Leaking	Emission Factor or Engineering Estimate (Mscf/day/dev)	Annual Emissions (Mscf)	Explanatory Notes / Comments
6487158	91326	V	N/A	Misc.	N/A	07/31/17	08/03/17	07/21/17	9	0.3562	3.2	
6487202	91326	V	N/A	Misc.	N/A	07/31/17	07/31/17	07/21/17	6	0.3562	2.1	
6487248	91326	V	N/A	Misc.	N/A	07/31/17	08/04/17	07/21/17	10	0.3562	3.6	
6487250	91326	V	N/A	Misc.	N/A	08/01/17	08/04/17	07/21/17	10	0.3562	3.4	
6487448	91326	V	N/A	Misc.	N/A	08/01/17	08/04/17	07/21/17	10	0.3562	3.4	
6487283	91326	V	N/A	Misc.	N/A	08/01/17	08/01/17	07/21/17	7	0.3562	2.3	
6487284	91326	C	N/A	Misc.	N/A	08/01/17	08/01/17	07/21/17	7	0.1358	0.9	
6487304	91326	C	N/A	Misc.	N/A	08/01/17	08/22/17	07/21/17	28	0.1358	3.7	
6487315	91326	C	N/A	Misc.	N/A	08/01/17	08/22/17	07/21/17	28	0.1358	3.7	
6487326	91326	C	N/A	Misc.	N/A	08/01/17	08/22/17	07/21/17	28	0.1358	3.7	
6487522	91326	C	N/A	Misc.	N/A	08/02/17	08/03/17	07/21/17	8	0.1358	1.1	
6487526	91326	C	N/A	Misc.	N/A	08/02/17	08/03/17	07/21/17	8	0.1358	1.1	
6487386	91326	C	N/A	Misc.	N/A	08/02/17	08/02/17	07/21/17	7	0.1358	1.0	
6487528	91326	C	N/A	Misc.	N/A	08/04/17	08/04/17	07/21/17	8	0.1358	1.1	
6487534	91326	V	N/A	Misc.	N/A	08/04/17	08/05/17	07/21/17	9	0.3562	3.2	
6487535	91326	V	N/A	Misc.	N/A	08/04/17	08/05/17	07/21/17	9	0.3562	3.2	
6502985	91326	V	N/A	Misc.	N/A	08/08/17	08/12/17	08/02/17	8	0.3562	2.8	
6502986	91326	V	N/A	Misc.	N/A	08/08/17	08/11/17	08/02/17	7	0.3562	2.5	
6502988	91326	C	N/A	Misc.	N/A	08/08/17	08/09/17	08/02/17	5	0.1358	0.7	
6503007	91326	V	N/A	Misc.	N/A	08/09/17	M	08/02/17	149	0.3562	52.9	
6503010	91326	V	N/A	Misc.	N/A	08/09/17	08/10/17	08/02/17	6	0.3562	2.0	
6503014	91326	V	N/A	Misc.	N/A	08/09/17	08/10/17	08/02/17	6	0.3562	2.0	
6503015	91326	V	N/A	Misc.	N/A	08/09/17	M	08/02/17	149	0.3562	52.9	
6503047	91326	V	N/A	Misc.	N/A	08/09/17	08/11/17	08/02/17	7	0.3562	2.3	
6503052	91326	V	N/A	Misc.	N/A	08/10/17	08/15/17	08/02/17	10	0.3562	3.6	
6503054	91326	C	N/A	Misc.	N/A	08/10/17	08/15/17	08/02/17	10	0.1358	1.4	
6503057	91326	V	N/A	Misc.	N/A	08/10/17	08/16/17	08/02/17	11	0.3562	3.9	
6503840	91326	C	N/A	Misc.	N/A	08/14/17	08/21/17	08/02/17	14	0.1358	1.9	
6503763	91326	C	N/A	Misc.	N/A	08/15/17	M	08/02/17	146	0.1358	19.8	
6503871	91326	C	N/A	Misc.	N/A	08/16/17	08/22/17	08/02/17	14	0.1358	1.9	
6503879	91326	C	N/A	Misc.	N/A	08/17/17	08/21/17	08/02/17	13	0.1358	1.7	
6503880	91326	C	N/A	Misc.	N/A	08/17/17	08/21/17	08/02/17	13	0.1358	1.7	
6505409	91326	C	N/A	Misc.	N/A	08/18/17	08/21/17	08/02/17	12	0.1358	1.6	
6505930	91326	V	N/A	Misc.	N/A	08/20/17	08/21/17	08/02/17	11	0.3562	3.9	
6510812	91326	V	N/A	Misc.	N/A	08/21/17	08/21/17	08/02/17	11	0.3562	3.7	
6510885	91326	C	N/A	Misc.	N/A	08/21/17	08/21/17	08/02/17	11	0.1358	1.4	
6510888	91326	C	N/A	Misc.	N/A	08/21/17	08/21/17	08/02/17	11	0.1358	1.4	
6510889	91326	C	N/A	Misc.	N/A	08/21/17	08/22/17	08/02/17	12	0.1358	1.6	
6510949	91326	V	N/A	Misc.	N/A	08/23/17	08/24/17	08/02/17	13	0.3562	4.5	
6512389	91326	C	N/A	Misc.	N/A	08/28/17	09/11/17	08/02/17	28	0.1358	3.8	Compressor leak
6512671	91326	V	N/A	Misc.	N/A	08/29/17	08/31/17	08/02/17	17	0.3562	5.9	
6513163	91326	V	N/A	Misc.	N/A	09/02/17	09/02/17	08/02/17	17	0.3562	5.9	
6513187	91326	C	N/A	Misc.	N/A	09/02/17	09/06/17	08/02/17	21	0.1358	2.8	

ID	Geographic Location	Device Type	Bleed Rate	Manufacturer	Pressure (psi)	Discovery Date (MM/DD/YY)	Repair Date (MM/DD/YY)	Prior Survey Date (MM/DD/YY)	Number of Days Leaking	Emission Factor or Engineering Estimate (Mscf/day/dev)	Annual Emissions (Mscf)	Explanatory Notes / Comments
6515173	91326	V	N/A	Misc.	N/A	09/05/17	09/07/17	09/02/17	5	0.3562	1.6	
6528527	91326	C	N/A	Misc.	N/A	09/13/17	09/14/17	09/02/17	8	0.1358	1.0	Compressor leak
6529373	91326	V	N/A	Misc.	N/A	09/13/17	09/18/17	09/02/17	12	0.3562	4.1	
6528421	91326	C	N/A	Misc.	N/A	09/14/17	M	09/02/17	115	0.1358	15.6	
6528440	91326	V	N/A	Misc.	N/A	09/14/17	09/14/17	09/02/17	7	0.3562	2.5	Compressor leak
6528441	91326	V	N/A	Misc.	N/A	09/14/17	09/14/17	09/02/17	7	0.3562	2.5	Compressor leak
6528442	91326	V	N/A	Misc.	N/A	09/14/17	09/14/17	09/02/17	7	0.3562	2.5	Compressor leak
6528443	91326	V	N/A	Misc.	N/A	09/14/17	09/14/17	09/02/17	7	0.3562	2.5	Compressor leak
6528444	91326	V	N/A	Misc.	N/A	09/14/17	09/14/17	09/02/17	7	0.3562	2.5	Compressor leak
6528445	91326	C	N/A	Misc.	N/A	09/14/17	01/04/18	09/02/17	115	0.1358	15.6	Compressor leak
6528446	91326	V	N/A	Misc.	N/A	09/14/17	09/14/17	09/02/17	7	0.3562	2.5	Compressor leak
6528447	91326	C	N/A	Misc.	N/A	09/14/17	01/04/18	09/02/17	115	0.1358	15.6	Compressor leak
6528448	91326	V	N/A	Misc.	N/A	09/14/17	09/14/17	09/02/17	7	0.3562	2.5	Compressor leak
6528449	91326	C	N/A	Misc.	N/A	09/14/17	09/14/17	09/02/17	7	0.1358	1.0	Compressor leak
6528450	91326	C	N/A	Misc.	N/A	09/14/17	09/14/17	09/02/17	7	0.1358	1.0	Compressor leak
6528451	91326	C	N/A	Misc.	N/A	09/14/17	09/22/17	09/02/17	15	0.1358	2.0	Compressor leak
6528452	91326	C	N/A	Misc.	N/A	09/14/17	12/29/17	09/02/17	113	0.1358	15.3	Compressor leak
6528453	91326	V	N/A	Misc.	N/A	09/14/17	09/14/17	09/02/17	7	0.3562	2.5	Compressor leak
6529353	91326	C	N/A	Misc.	N/A	09/15/17	09/18/17	09/02/17	11	0.1358	1.4	
6529454	91326	V	N/A	Misc.	N/A	09/17/17	09/18/17	09/02/17	10	0.3562	3.4	
6529455	91326	V	N/A	Misc.	N/A	09/17/17	09/18/17	09/02/17	10	0.3562	3.4	
6529456	91326	C	N/A	Misc.	N/A	09/17/17	10/02/17	09/02/17	24	0.1358	3.2	
6530170	91326	C	N/A	Misc.	N/A	09/18/17	09/25/17	09/02/17	16	0.1358	2.2	
6530177	91326	C	N/A	Misc.	N/A	09/18/17	09/21/17	09/02/17	12	0.1358	1.6	
6534294	91326	V	N/A	Misc.	N/A	09/19/17	09/19/17	09/02/17	10	0.3562	3.4	
6534265	91326	V	N/A	Misc.	N/A	09/19/17	09/28/17	09/02/17	19	0.3562	6.6	
6534266	91326	C	N/A	Misc.	N/A	09/19/17	09/19/17	09/02/17	10	0.1358	1.3	
6534233	91326	C	N/A	Misc.	N/A	09/19/17	09/28/17	09/02/17	19	0.1358	2.5	
6530749	91326	V	N/A	Misc.	N/A	09/19/17	09/21/17	09/02/17	12	0.3562	4.1	
6534295	91326	V	N/A	Misc.	N/A	09/19/17	09/19/17	09/02/17	10	0.3562	3.4	
6534298	91326	C	N/A	Misc.	N/A	09/19/17	09/19/17	09/02/17	10	0.1358	1.3	
6533023	91326	C	N/A	Misc.	N/A	09/21/17	09/23/17	09/02/17	13	0.1358	1.7	
6533112	91326	C	N/A	Misc.	N/A	09/21/17	09/22/17	09/02/17	12	0.1358	1.6	
6533164	91326	V	N/A	Misc.	N/A	09/21/17	09/22/17	09/02/17	12	0.3562	4.1	
6533242	91326	V	N/A	Misc.	N/A	09/21/17	09/22/17	09/02/17	12	0.3562	4.1	
6534141	91326	V	N/A	Misc.	N/A	09/22/17	09/23/17	09/02/17	12	0.3562	4.3	
6534143	91326	V	N/A	Misc.	N/A	09/22/17	09/22/17	09/02/17	11	0.3562	3.9	
6534239	91326	C	N/A	Misc.	N/A	09/26/17	09/28/17	09/02/17	15	0.1358	2.0	
6534236	91326	C	N/A	Misc.	N/A	09/27/17	09/28/17	09/02/17	15	0.1358	2.0	
6534246	91326	C	N/A	Misc.	N/A	09/27/17	M	09/02/17	109	0.1358	14.7	
6535110	91326	C	N/A	Misc.	N/A	09/29/17	10/07/17	09/02/17	23	0.1358	3.1	
6535277	91326	V	N/A	Misc.	N/A	09/29/17	10/04/17	09/02/17	20	0.3562	6.9	
6535280	91326	C	N/A	Misc.	N/A	10/02/17	10/05/17	09/02/17	19	0.1358	2.6	

ID	Geographic Location	Device Type	Bleed Rate	Manufacturer	Pressure (psi)	Discovery Date (MM/DD/YY)	Repair Date (MM/DD/YY)	Prior Survey Date (MM/DD/YY)	Number of Days Leaking	Emission Factor or Engineering Estimate (Mscf/day/dev)	Annual Emissions (Mscf)	Explanatory Notes / Comments
6545824	91326	C	N/A	Misc.	N/A	10/08/17	10/12/17	09/02/17	23	0.1358	3.1	
6546348	91326	V	N/A	Misc.	N/A	10/11/17	10/11/17	09/02/17	21	0.3562	7.3	
6548952	91326	V	N/A	Misc.	N/A	10/16/17	10/17/17	09/02/17	24	0.3562	8.5	
6550278	91326	C	N/A	Misc.	N/A	10/18/17	10/23/17	09/02/17	29	0.1358	3.9	
6550311	91326	C	N/A	Misc.	N/A	10/19/17	10/20/17	09/02/17	26	0.1358	3.5	
6550319	91326	V	N/A	Misc.	N/A	10/19/17	10/19/17	09/02/17	25	0.3562	8.7	
6550289	91326	V	N/A	Misc.	N/A	10/19/17	10/22/17	09/02/17	28	0.3562	9.8	
6554566	91326	C	N/A	Misc.	N/A	10/30/17	11/01/17	10/27/17	5	0.1358	0.6	
6554557	91326	C	N/A	Misc.	N/A	10/30/17	11/03/17	10/27/17	7	0.1358	0.9	
6554559	91326	V	N/A	Misc.	N/A	10/30/17	11/03/17	10/27/17	7	0.3562	2.3	
6554565	91326	V	N/A	Misc.	N/A	10/30/17	11/03/17	10/27/17	7	0.3562	2.3	
6554568	91326	V	N/A	Misc.	N/A	10/30/17	11/04/17	10/27/17	8	0.3562	2.7	
6554570	91326	V	N/A	Misc.	N/A	10/30/17	11/03/17	10/27/17	7	0.3562	2.3	
6554571	91326	V	N/A	Misc.	N/A	10/30/17	11/03/17	10/27/17	7	0.3562	2.3	
6554577	91326	C	N/A	Misc.	N/A	10/30/17	11/03/17	10/27/17	7	0.1358	0.9	
6554579	91326	V	N/A	Misc.	N/A	10/30/17	11/01/17	10/27/17	5	0.3562	1.6	
6554581	91326	C	N/A	Misc.	N/A	10/30/17	11/02/17	10/27/17	6	0.1358	0.7	
6554585	91326	V	N/A	Misc.	N/A	10/30/17	11/03/17	10/27/17	7	0.3562	2.3	
6554598	91326	V	N/A	Misc.	N/A	10/31/17	11/12/17	10/27/17	15	0.3562	5.3	
6554758	91326	C	N/A	Misc.	N/A	11/01/17	11/01/17	10/27/17	4	0.1358	0.5	
6554675	91326	V	N/A	Misc.	N/A	11/01/17	11/03/17	10/27/17	6	0.3562	2.0	
6554676	91326	V	N/A	Misc.	N/A	11/01/17	11/03/17	10/27/17	6	0.3562	2.0	
6554683	91326	C	N/A	Misc.	N/A	11/01/17	11/01/17	10/27/17	4	0.1358	0.5	
6554685	91326	C	N/A	Misc.	N/A	11/01/17	11/02/17	10/27/17	5	0.1358	0.6	
6563300	91326	C	N/A	Misc.	N/A	11/02/17	11/02/17	10/27/17	4	0.1358	0.5	
6554745	91326	V	N/A	Misc.	N/A	11/02/17	11/02/17	10/27/17	4	0.3562	1.4	
6554746	91326	C	N/A	Misc.	N/A	11/02/17	11/02/17	10/27/17	4	0.1358	0.5	
6563555	91326	C	N/A	Misc.	N/A	11/03/17	11/04/17	10/27/17	6	0.1358	0.7	
6566958	91326	C	N/A	Misc.	N/A	11/04/17	M	10/27/17	62	0.1358	8.4	
6567168	91326	V	N/A	Misc.	N/A	11/07/17	11/15/17	10/27/17	15	0.3562	5.2	
6567158	91326	C	N/A	Misc.	N/A	11/07/17	11/07/17	10/27/17	7	0.1358	0.9	
6567862	91326	V	N/A	Misc.	N/A	11/10/17	11/11/17	10/27/17	9	0.3562	3.2	
6568351	91326	V	N/A	Misc.	N/A	11/13/17	11/13/17	10/27/17	10	0.3562	3.4	
6576419	91326	V	N/A	Misc.	N/A	11/22/17	11/22/17	10/27/17	14	0.3562	5.0	
6576420	91326	C	N/A	Misc.	N/A	11/22/17	11/22/17	10/27/17	14	0.1358	1.9	
6576422	91326	V	N/A	Misc.	N/A	11/22/17	11/22/17	10/27/17	14	0.3562	5.0	
6576737	91326	V	N/A	Misc.	N/A	11/27/17	11/30/17	10/27/17	20	0.3562	6.9	
6576738	91326	V	N/A	Misc.	N/A	11/27/17	11/29/17	10/27/17	19	0.3562	6.6	
6576750	91326	C	N/A	Misc.	N/A	11/27/17	12/01/17	10/27/17	21	0.1358	2.8	
6576751	91326	V	N/A	Misc.	N/A	11/27/17	11/30/17	10/27/17	20	0.3562	6.9	
6576752	91326	V	N/A	Misc.	N/A	11/27/17	11/30/17	10/27/17	20	0.3562	6.9	
6576753	91326	V	N/A	Misc.	N/A	11/30/17	11/30/17	10/27/17	18	0.3562	6.4	
6577635	91326	C	N/A	Misc.	N/A	12/01/17	12/04/17	10/27/17	22	0.1358	2.9	

ID	Geographic Location	Device Type	Bleed Rate	Manufacturer	Pressure (psi)	Discovery Date (MM/DD/YY)	Repair Date (MM/DD/YY)	Prior Survey Date (MM/DD/YY)	Number of Days Leaking	Emission Factor or Engineering Estimate (Mscf/day/dev)	Annual Emissions (Mscf)	Explanatory Notes / Comments
6577637	91326	V	N/A	Misc.	N/A	12/01/17	12/04/17	10/27/17	22	0.3562	7.7	
6577638	91326	V	N/A	Misc.	N/A	12/01/17	12/06/17	10/27/17	24	0.3562	8.4	
6577641	91326	C	N/A	Misc.	N/A	12/02/17	12/08/17	10/27/17	25	0.1358	3.4	
6577606	91326	C	N/A	Misc.	N/A	12/02/17	M	10/27/17	48	0.1358	6.5	
6577620	91326	C	N/A	Misc.	N/A	12/04/17	M	10/27/17	47	0.1358	6.4	
6577623	91326	C	N/A	Misc.	N/A	12/04/17	M	10/27/17	47	0.1358	6.4	
6577624	91326	C	N/A	Misc.	N/A	12/04/17	M	10/27/17	47	0.1358	6.4	
6577625	91326	V	N/A	Misc.	N/A	12/04/17	M	10/27/17	47	0.3562	16.7	
6577626	91326	C	N/A	Misc.	N/A	12/04/17	M	10/27/17	47	0.1358	6.4	
6577627	91326	C	N/A	Misc.	N/A	12/04/17	M	10/27/17	47	0.1358	6.4	
6577628	91326	V	N/A	Misc.	N/A	12/04/17	M	10/27/17	47	0.3562	16.7	
6577759	91326	V	N/A	Misc.	N/A	12/06/17	12/06/17	10/27/17	21	0.3562	7.5	
6577760	91326	V	N/A	Misc.	N/A	12/06/17	12/06/17	10/27/17	21	0.3562	7.5	
6577773	91326	V	N/A	Misc.	N/A	12/07/17	12/08/17	10/27/17	23	0.3562	8.0	
6577774	91326	V	N/A	Misc.	N/A	12/07/17	12/08/17	10/27/17	23	0.3562	8.0	
6577776	91326	C	N/A	Misc.	N/A	12/07/17	12/08/17	10/27/17	23	0.1358	3.1	
6577777	91326	C	N/A	Misc.	N/A	12/07/17	12/08/17	10/27/17	23	0.1358	3.1	
6577780	91326	V	N/A	Misc.	N/A	12/07/17	12/08/17	10/27/17	23	0.3562	8.0	
6593805	91326	C	N/A	Misc.	N/A	12/11/17	12/12/17	10/27/17	25	0.1358	3.3	
6594229	91326	V	N/A	Misc.	N/A	12/12/17	12/14/17	10/27/17	26	0.3562	9.3	
6594291	91326	V	N/A	Misc.	N/A	12/14/17	12/14/17	10/27/17	25	0.3562	8.9	
6594636	91326	V	N/A	Misc.	N/A	12/16/17	01/02/18	10/27/17	41	0.3562	14.6	
6595015	91326	C	N/A	Misc.	N/A	12/17/17	12/20/17	10/27/17	30	0.1358	4.0	
6594666	91326	V	N/A	Misc.	N/A	12/18/17	12/20/17	10/27/17	29	0.3562	10.3	
6595017	91326	C	N/A	Misc.	N/A	12/19/17	12/20/17	10/27/17	29	0.1358	3.9	
6595043	91326	C	N/A	Misc.	N/A	12/19/17	12/20/17	10/27/17	29	0.1358	3.9	
6595095	91326	V	N/A	Misc.	N/A	12/19/17	12/20/17	10/27/17	29	0.3562	10.2	
6595133	91326	C	N/A	Misc.	N/A	12/19/17	12/21/17	10/27/17	30	0.1358	4.0	
6595193	91326	V	N/A	Misc.	N/A	12/19/17	12/20/17	10/27/17	29	0.3562	10.2	
6595204	91326	V	N/A	Misc.	N/A	12/19/17	12/20/17	10/27/17	29	0.3562	10.2	
6595255	91326	V	N/A	Misc.	N/A	12/19/17	12/20/17	10/27/17	29	0.3562	10.2	
6595297	91326	C	N/A	Misc.	N/A	12/19/17	12/20/17	10/27/17	29	0.1358	3.9	
6595320	91326	C	N/A	Misc.	N/A	12/19/17	12/20/17	10/27/17	29	0.1358	3.9	
6595343	91326	V	N/A	Misc.	N/A	12/19/17	12/20/17	10/27/17	29	0.3562	10.2	
6595436	91326	V	N/A	Misc.	N/A	12/19/17	12/20/17	10/27/17	29	0.3562	10.2	
6595497	91326	V	N/A	Misc.	N/A	12/19/17	12/20/17	10/27/17	29	0.3562	10.2	
6598017	91326	V	N/A	Misc.	N/A	12/20/17	12/21/17	10/27/17	29	0.3562	10.3	
6597993	91326	V	N/A	Misc.	N/A	12/20/17	12/21/17	10/27/17	29	0.3562	10.3	
6597994	91326	V	N/A	Misc.	N/A	12/20/17	12/21/17	10/27/17	29	0.3562	10.3	
6597999	91326	V	N/A	Misc.	N/A	12/20/17	12/21/17	10/27/17	29	0.3562	10.3	
6598000	91326	V	N/A	Misc.	N/A	12/20/17	12/21/17	10/27/17	29	0.3562	10.3	
6598002	91326	V	N/A	Misc.	N/A	12/20/17	12/21/17	10/27/17	29	0.3562	10.3	
6598003	91326	C	N/A	Misc.	N/A	12/20/17	12/21/17	10/27/17	29	0.1358	3.9	

ID	Geographic Location	Device Type	Bleed Rate	Manufacturer	Pressure (psi)	Discovery Date (MM/DD/YY)	Repair Date (MM/DD/YY)	Prior Survey Date (MM/DD/YY)	Number of Days Leaking	Emission Factor or Engineering Estimate (Mscf/day/dev)	Annual Emissions (Mscf)	Explanatory Notes / Comments
6598004	91326	C	N/A	Misc.	N/A	12/20/17	12/21/17	10/27/17	29	0.1358	3.9	
6598005	91326	V	N/A	Misc.	N/A	12/20/17	12/21/17	10/27/17	29	0.3562	10.3	
6598006	91326	C	N/A	Misc.	N/A	12/20/17	12/21/17	10/27/17	29	0.1358	3.9	
6598008	91326	V	N/A	Misc.	N/A	12/20/17	12/21/17	10/27/17	29	0.3562	10.3	
6598032	91326	V	N/A	Misc.	N/A	12/21/17	12/21/17	10/27/17	29	0.3562	10.2	
6601015	91326	C	N/A	Misc.	N/A	12/26/17	12/27/17	10/27/17	32	0.1358	4.3	
6601016	91326	C	N/A	Misc.	N/A	12/26/17	12/27/17	10/27/17	32	0.1358	4.3	
6601017	91326	V	N/A	Misc.	N/A	12/26/17	12/27/17	10/27/17	32	0.3562	11.4	
6602086	91326	C	N/A	Misc.	N/A	12/30/17	01/02/18	10/27/17	34	0.1358	4.6	
6602087	91326	V	N/A	Misc.	N/A	12/30/17	01/02/18	10/27/17	34	0.3562	12.1	
6330384	90293	V	N/A	Misc.	N/A	01/16/17	01/16/17	07/01/16	101	0.3562	35.8	Compressor leak
6347865	90293	C	N/A	Misc.	N/A	02/02/17	02/02/17	01/30/17	3	0.1358	0.3	
6363102	90293	C	N/A	Misc.	N/A	02/07/17	02/07/17	01/30/17	5	0.1358	0.7	Compressor leak
6369180	90293	V	N/A	Misc.	N/A	02/24/17	02/24/17	01/30/17	14	0.3562	4.8	
6387673	90293	C	N/A	Misc.	N/A	03/16/17	03/16/17	01/30/17	24	0.1358	3.2	
6389067	90293	C	N/A	Misc.	N/A	03/18/17	03/20/17	01/30/17	27	0.1358	3.6	
6389076	90293	C	N/A	Misc.	N/A	03/19/17	03/21/17	01/30/17	27	0.1358	3.7	
6394823	90293	C	N/A	Misc.	N/A	04/02/17	04/05/17	01/30/17	35	0.1358	4.8	
6394824	90293	C	N/A	Misc.	N/A	04/02/17	M	01/30/17	305	0.1358	41.4	
6395451	90293	V	N/A	Misc.	N/A	04/06/17	M	01/30/17	303	0.3562	107.9	
6395489	90293	V	N/A	Misc.	N/A	04/07/17	M	01/30/17	303	0.3562	107.7	
6416965	90293	C	N/A	Misc.	N/A	04/30/17	05/05/17	01/30/17	51	0.1358	6.9	
6416994	90293	C	N/A	Misc.	N/A	05/01/17	M	01/30/17	291	0.1358	39.5	
6417123	90293	C	N/A	Misc.	N/A	05/02/17	07/10/17	01/30/17	116	0.1358	15.8	
6417277	90293	C	N/A	Misc.	N/A	05/04/17	05/05/17	01/30/17	49	0.1358	6.7	
6431826	90293	C	N/A	Misc.	N/A	05/16/17	M	01/30/17	283	0.1358	38.4	
6454553	90293	V	N/A	Misc.	N/A	06/10/17	06/12/17	01/30/17	69	0.3562	24.4	
6462928	90293	C	N/A	Misc.	N/A	06/27/17	06/27/17	01/30/17	75	0.1358	10.2	
6479480	90293	C	N/A	Misc.	N/A	07/08/17	M	01/30/17	257	0.1358	34.8	
6480883	90293	V	N/A	Misc.	N/A	07/14/17	09/12/17	01/30/17	144	0.3562	51.1	
6481011	90293	C	N/A	Misc.	N/A	07/17/17	M	01/30/17	252	0.1358	34.2	
6481013	90293	V	N/A	Misc.	N/A	07/17/17	08/11/17	01/30/17	110	0.3562	39.2	
6482369	90293	C	N/A	Misc.	N/A	07/19/17	07/20/17	01/30/17	87	0.1358	11.8	
6485766	90293	C	N/A	Misc.	N/A	07/24/17	08/10/17	01/30/17	106	0.1358	14.3	
6487144	90293	C	N/A	Misc.	N/A	07/30/17	08/28/17	01/30/17	121	0.1358	16.4	
6487167	90293	V	N/A	Misc.	N/A	07/31/17	09/26/17	07/30/17	59	0.3562	20.8	
6487385	90293	V	N/A	Misc.	N/A	08/02/17	08/02/17	07/30/17	3	0.3562	0.9	
6502808	90293	C	N/A	Misc.	N/A	08/07/17	08/07/17	07/30/17	5	0.1358	0.7	Compressor leak
6503886	90293	C	N/A	Misc.	N/A	08/17/17	M	07/30/17	146	0.1358	19.8	
6506536	90293	C	N/A	Misc.	N/A	08/21/17	08/22/17	07/30/17	13	0.1358	1.8	
6512391	90293	C	N/A	Misc.	N/A	08/28/17	M	07/30/17	141	0.1358	19.1	
6512560	90293	C	N/A	Misc.	N/A	08/30/17	11/26/17	07/30/17	105	0.1358	14.2	
6512706	90293	C	N/A	Misc.	N/A	08/31/17	M	07/30/17	139	0.1358	18.9	

ID	Geographic Location	Device Type	Bleed Rate	Manufacturer	Pressure (psi)	Discovery Date (MM/DD/YY)	Repair Date (MM/DD/YY)	Prior Survey Date (MM/DD/YY)	Number of Days Leaking	Emission Factor or Engineering Estimate (Mscf/day/dev)	Annual Emissions (Mscf)	Explanatory Notes / Comments
6513482	90293	C	N/A	Misc.	N/A	09/05/17	M	07/30/17	137	0.1358	18.5	
6528515	90293	C	N/A	Misc.	N/A	09/15/17	10/31/17	07/30/17	71	0.1358	9.6	
6528544	90293	C	N/A	Misc.	N/A	09/15/17	M	07/30/17	132	0.1358	17.9	
6529356	90293	C	N/A	Misc.	N/A	09/17/17	M	07/30/17	131	0.1358	17.7	
6531725	90293	C	N/A	Misc.	N/A	09/21/17	09/21/17	07/30/17	28	0.1358	3.7	Compressor leak
6534157	90293	C	N/A	Misc.	N/A	09/24/17	M	07/30/17	127	0.1358	17.2	Compressor leak
6535052	90293	V	N/A	Misc.	N/A	10/03/17	M	07/30/17	123	0.3562	43.6	
6550208	90293	C	N/A	Misc.	N/A	10/17/17	10/18/17	07/30/17	42	0.1358	5.6	
6554400	90293	V	N/A	Misc.	N/A	10/29/17	M	07/30/17	110	0.3562	39.0	
6568088	90293	C	N/A	Misc.	N/A	11/13/17	11/16/17	07/30/17	57	0.1358	7.7	
6574345	90293	C	N/A	Misc.	N/A	11/20/17	12/19/17	07/30/17	87	0.1358	11.7	
Sum Total											20,870	

SoCalGas, June 15, 2018

**Rulemaking (R.) 15-01-008 to Adopt Rules and Procedures Governing Commission Regulated Natural Gas Pipelines and Facilities to Reduce Natural Gas Leaks Consistent with Senate Bill 1371,
In Response to Data Request, R15-01-008 2018 June Report
Appendix 7; Rev. 03/31/18**

Pursuant to SB 1371, Leno - Natural gas: leakage abatement, the California Public Utilities Commission (CPUC) requests that the following information be transmitted to the CPUC and the State Air Resources Board (ARB):
Note - Definitions in Data Request, R15-01-008 2018 June Report

The following question in the above mentioned data request is answered using the spreadsheets in this Appendix (#7):
(6) Calculable or estimated emissions and non-graded gas leaks, as defined in Data Request R15-01-008 2018 June Report.

Notes:
Use a formula-derived value with the formula used in the Annual Emissions column. Do not use a copy and paste-as-value.
At the end of Annual Emissions Column, add a summation total in a cell for a column total, and then highlight orange

Underground Storage Dehydrator Vented Emissions:

ID	Geographic Location	Type of Dehydrator (Glycol or Desiccant)	Vapor Recovery		Annual Volume of Gas Withdrawn (Mscf)	Emission Factor (Y/N)	Engineering Estimate (Y/N)	Annual Emissions (Mscf)	Explanatory Notes / Comments
			Unit	AND/OR Thermal Oxidizer (Y/N)					
N/A	90293	Glycol	Y		4,003,596	0	N/A	0	Flashed gas and regen vapor recompressed into low pressure processing system for gas distribution
N/A	93111	Glycol	Y		10,512,784	0	N/A	0	Flashed gas goes into plant fuel system and regen vapor goes to a thermal oxidizer
N/A	93155	Glycol	Y		25,050,737	0	N/A	0	Dehy Train A/Dehy Train B: Flashed gas and regen vapor recompressed into feed gas to dehy
N/A	91326	Glycol	Y		441,280	0	N/A	0	<ul style="list-style-type: none"> ● Dehy 1/Dehy 2: Flashed gas and regen vapor goes to a thermal oxidizer ● Dehy 3: Flashed gas and regen vapor recompressed into feed gas to dehy
Sum Total								0	

Appendix 7 - Rev. 03/31/18

Header column "Comment" boxes displayed below for reference.	
Column Heading	Description and Definition of Required Contents (IF not self-explanatory)
Storage Leaks & Emissions	
ID	
Geographic Location	GIS, zip code, or equivalent
Source	W = wellhead C = casing P = pipeline O = other
Number of Sources	
Emission Factor (Mscf/yr)	
Annual Emissions (Mscf)	
Explanatory Notes / Comments	

Compressor Vented Emissions	
ID	
Geographic Location	GIS, zip code, or equivalent
Compressor Type	C = centrifugal R = reciprocating
Prime Mover	E = electric motor C = internal combustion engine
Number of Cylinders in Compressor	
Number of Seals	
Seal Type	W = wet D = dry O = other

Column Heading	Description and Definition of Required Contents (IF not self-explanatory)
Operating Mode: Pressurized Operating (hours)	
Operating Mode: Pressurized Idle (hours)	
Operating Mode: Depressurized Idle (hours)	
Emission Factor: Pressurized Operating (scf/hr)	
Emission Factor: Pressurized Idle (scf/hr)	
Emission Factor: Depressurized Idle (scf/hr)	
Annual Emissions (Mscf)	
Explanatory Notes / Comments	

Blowdowns	
ID	
Geographic Location	GIS, zip code, or equivalent
Source	W = wellhead rework C = compressor P= pipeline O = other
CompressorType	C = centrifugal R = reciprocating
Number of Blowdown Events	
Annual Emissions(Mscf)	

Column Heading		Description and Definition of Required Contents (IF not self-explanatory)
Explanatory Notes / Comments		

Component Vented Emissions	
ID	
Geographic Location	GIS, zip code, or equivalent
Device Type	C = connector OE = open-ended line M = meter P = pneumatic device PR = pressure relief valve V = valve O = other devices
Bleed Rate	L = low bleed I = intermittent bleed H = high bleed NA = not applicable
Manufacturer	
Pressure (psi)	MOP = maximum operating pressure over the past year
Survey Date (MM/DD/YY)	
Number of Days Emitting	Because the emissions are a factor of design or function, these emissions counted for the entire year.
Emission Factor, Engineering or Manufacturer's based Estimate of Emissions (Mscf/day)	Explain in the comment column the basis for your emission estimate.
Annual Emissions (Mscf)	
Explanatory Notes / Comments	

Component Leaks

Column Heading	Description and Definition of Required Contents (IF not self-explanatory)
ID	
Geographic Location	GIS, zip code, or equivalent
Device Type	C = connector OE = open-ended line M = meter P = pneumatic device PR = pressure relief valve V = valve O = other devices
Bleed Rate	L = low bleed I = intermittent bleed H = high bleed NA = not applicable
Manufacturer	
Pressure (psi)	MOP = maximum operating pressure over the past year
Discovery Date (MM/DD/YY)	List the actual discovery date. If the leak was discovered in the year of interest, then we will assume the component was leaking from the beginning of the year for emissions reporting purposes.
Repair Date (MM/DD/YY)	Date that the component repair stopped the leak. Any associated blowdowns as a result of the repair should be included in the blowdowns tab.
Prior Survey Date (MM/DD/YY)	Before the discovery date of the leak, there was a "Prior Survey Date" when the compressor station was tested and no leak was found. There should be records as to when the compressor station was last surveyed. If the survey spanned two or more days, enter the final date. Note, a facility level survey date is sufficient to establish the prior survey date.

Column Heading	Description and Definition of Required Contents (IF not self-explanatory)
<p style="text-align: center;">Number of Days Leaking</p>	<p>The algorithm that is used for determining the number of days leaking should conform to the following guidance: For the number days leaking prior to the date of discovery (survey date in the year of interest), calculate the number of days between the Discovery Date and the Prior Survey Date then divided by 2. [Dividing by 2 approximates the average time leaking between the leak discovery and the prior survey date. See below guidance when a leak is discovered in a prior period and repaired in the year of interest.]</p> <p>$(\text{Discovery Date} - \text{Prior Survey Date})/2$</p> <p>Calculate the number of days leaking after discovery (survey) date, by subtracting the discovery date from the repair date, unless the leak has not been repaired, where the number of days should be calculated by subtracting the discovery date from December 31 of the year of interest.*</p> <p>$(\text{Repair Date} - \text{Discovery Date})$, unless repair date greater than 12/31/XX then use 12/31/XX</p> <p>---</p> <p>$\text{Days Leaking} = (\text{Repair Date} - \text{Discovery Date}) + (\text{Discovery Date} - \text{Prior Survey Date})/2 + 1$</p> <p>* [This requires tracking the leak across different years, because the leak could be minor and conceivably span more than year before getting repaired. Therefore, in the cases where a leak is carried over to a subsequent year, an annual calculation should be made to reflect that the number of days leaking in the prior year have already been reported in the annual emissions inventory. In subsequent years the carried over leaks should reflect a beginning date of January 1 of the year of interest.]</p>
<p style="text-align: center;">Emission Factor or Engineering Estimate (Mscf/day)</p>	
<p style="text-align: center;">Annual Emissions (Mscf)</p>	
<p style="text-align: center;">Explanatory Notes / Comments</p>	

Column Heading	Description and Definition of Required Contents (IF not self-explanatory)
----------------	---

Dehydrator Vented Emissions	
ID	
Geographic Location	GIS, zip code, or equivalent
Type of Dehydrator (Glycol or Desiccant)	
Vapor Recovery Unit AND Thermal Oxidizer (Y/N)	In order to claim 0 emissions, a Vapor Recovery Unit AND thermal oxidizer must be used 100% of the time during operation
Annual Volume of Gas Withdrawn (Mscf)	
Emission Factor (Y/N)	<p>If the glycol dehydrator has a Vapor Recovery Unit (VRU) and a thermal oxidizer, the emission factor is 0.</p> <p>If using a desiccant dehydrator, the emission factor is 2.23E-03 mt CH₄/MMscf</p>
Engineering Estimate (Y/N)	If using an engineering estimate, please include an attachment of methodology or software used as a separate document. Record the annual emissions
Annual Emissions (Mscf)	<p>For dehydrators using an emission factor, annual emissions are calculated by multiplying annual volume of gas withdrawn and the emission factor</p> <p>For dehydrators using an engineering estimate, record the annual emissions</p>
Explanatory Notes / Comments	