

SoCalGas, June 15,2020
Rulemaking (R) 19-01-008 to Adopt Rules and Procedures Governing Commission Regulated Natural Gas Pipelines and Facilities to Reduce Natural Gas Leaks Consistent with Senate Bill 1371, Lemo.
In Response to Data Request, R19-01-008 - 2020 June Report
Appendix 3 - Rev. 03/31/20

Notes:
Use a formula-derived value with the formula used in the Annual Emissions column. Do not use a copy and paste version.
Adjustment of Annual Emissions Column, add a summation total to 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 Releases worksheet.

- 2020 Reporting Changes
- 1) New Column for Measurement Frequency - See how accurately it you have any questions contact Ed Chalkley at 951-703-2421 or via email.
 - 2) Added new column for Emission Factor: Measurement Date - Pressurized Operations.
 - 3) Added a fourth measurement frequency: "Offline" - In addition, a measurement of emissions (BTU) should be taken during Offline modes, to ensure that no emissions are emitting from the system.
 - 4) Alternate emissions measurement method, where applicable and measured by the operator
 - 5) Alternate emissions measurement method, where applicable and measured by the operator
 - Blackouts and Isolation values
 - 6) Measure overnight compressor emissions additional columns added for those emissions
 - Dry
 - Wet seals
 - Wet seal of degrading vents in Pressurized idle mode

Transmission Compressor Vented Emissions:																																																																																																																																																															
ID	Geograph ic Location	Compressor Type	Prime Mover	Number of Cylinders	Number of Stds	Std Type	Measurement and Frequency	Emission Factor: Measurement and Frequency	Operating Mode: Pressurized Idle Operating (hours)	Operating Mode: Pressurized Idle (hours)	Operating Mode: Pressurized Idle (hours)	Emission Factor: Pressurized Idle Pressurized Idle (lb/hr)	Emission Factor: Pressurized Idle Pressurized Idle (lb/hr)	Emission Factor: Pressurized Idle Pressurized Idle (lb/hr)	Emission Factor: Pressurized Idle Pressurized Idle (lb/hr)	Emission Factor: Pressurized Idle Pressurized Idle (lb/hr)	Emission Factor: Pressurized Idle Pressurized Idle (lb/hr)	Emission Factor: Pressurized Idle Pressurized Idle (lb/hr)	Emission Factor: Pressurized Idle Pressurized Idle (lb/hr)	Emission Factor: Pressurized Idle Pressurized Idle (lb/hr)	Emission Factor: Pressurized Idle Pressurized Idle (lb/hr)	Emission Factor: Pressurized Idle Pressurized Idle (lb/hr)	Emission Factor: Pressurized Idle Pressurized Idle 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Appendix 3 - Rev. 03/29/19

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

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ID	Geographic Location	Compressor Type	Prime Mover	Number of Cylinders	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
Unit 8	92225	R	C	4	N/A	N/A	1399	4502	2859	75.73	0	4.5	119	Kelso. No wet seal measurements at other locations.
Unit 9	92225	R	C	4	N/A	N/A	1793	6699	268	20.7	1	16	48	
Unit 10	92225	R	C	4	N/A	N/A	2262	6161	337	39.2	0	0	89	
Unit 11	92225	R	C	4	N/A	N/A	1602	1747	5411	390.68	0.03	1.67	635	
Unit 12	92225	R	C	4	N/A	N/A	3256	5212	292	116.6	0	5.3	381	
Unit 13	92225	R	C	4	N/A	N/A	4937	3705	118	20.11	0	4.5	100	
Unit 14	92225	R	C	4	N/A	N/A	5151	3511	98	4.14	0	0	21	
Unit 15	92225	R	C	4	N/A	N/A	4087	3422	1251	0	0	0	0	
CAT 1	92225	R	C	6	N/A	N/A	6910	1199	651	976.37	0	1.67	6748	
CAT 2	92225	R	C	6	N/A	N/A	6646	894	1220	763.56	0	1.67	5077	
turbine	92351	C	C	N/A	1	W	0	0	8760	none	none	1.44	13	
Unit 1	92363	R	C	4	N/A	N/A	139	2372	6249	64.03	0	0	9	
Unit 2	92363	R	C	4	N/A	N/A	166	2171	6423	132.64	0	0	22	
Unit 3	92363	R	C	4	N/A	N/A	0.3	1642	7117.7	390.68	0.03	1.67	12	
Unit 4	92363	R	C	4	N/A	N/A	0	0	8760	390.68	0.03	1.67	15	
Unit 5	92363	R	C	4	N/A	N/A	0	0	8760	390.68	0.03	1.67	15	
Unit 6	92363	R	C	4	N/A	N/A	0	0	8760	390.68	0.03	1.67	15	
Unit 7	92363	R	C	4	N/A	N/A	0	208	8552	390.68	0.03	1.67	14	
1	92363	R	C	6	N/A	N/A	0	0	8760	390.68	0.03	1.67	15	
2	92363	R	C	6	N/A	N/A	0	1	8759	390.68	0.03	1.67	15	
3	92363	R	C	5	N/A	N/A	0	347	8413	390.68	0.03	1.67	14	
4	92363	R	C	4	N/A	N/A	11	7169	1580	390.68	0.03	1.67	7	
5	92363	R	C	4	N/A	N/A	11	5658	3091	390.68	0.03	1.67	10	
1	92365	R	C	3	N/A	N/A	0	539	8221	390.68	0.03	1.67	14	
2	92365	R	C	3	N/A	N/A	0	806	7954	390.68	0.03	1.67	13	
3	92365	R	C	3	N/A	N/A	0	348	8412	390.68	0.03	1.67	14	
4	92365	R	C	3	N/A	N/A	0	306	8454	390.68	0.03	1.67	14	
5	92365	R	C	3	N/A	N/A	0	642	8118	390.68	0.03	1.67	14	
6	92365	R	C	3	N/A	N/A	0	285	8475	390.68	0.03	1.67	14	
7	92365	R	C	3	N/A	N/A	0	179	8581	390.68	0.03	1.67	14	
HPC 1	93001	R	C	2	N/A	N/A	4461	2436	1863	711	0	0	3172	
HPC 2	93001	R	C	2	N/A	N/A	3823	1597	3340	6484	0	0	24788	
HPC 3	93001	R	C	2	N/A	N/A	3854	3086	1820	532.26	0	0	2051	
201	93313	C	C	N/A	2	D	978	82	7700	N/A	N/A	0	0	
301	93313	C	C	N/A	2	D	3440	132	5188	N/A	N/A	0	0	
401	93313	C	C	N/A	2	D	1123	57	7580	N/A	N/A	0	0	
501	93313	C	C	N/A	2	D	3511	180	51					

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Appendix 3 - Rev. 03/31/20

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.

Transmission Compressor Station Blowdowns:

ID	Geographic Location	Number of Blowdown Events	Annual Emissions (Mscf)	Explanatory Notes / Comments
N/A		50	994	Maintenance Blowdowns
N/A		1	29	Maintenance Blowdowns
N/A		65	1,278	Maintenance Blowdowns
N/A		12	566	Maintenance Blowdowns
N/A		1	107	Maintenance Blowdowns
N/A		228	7,724	Maintenance Blowdowns
N/A		1	34	Blowdown for Regulatory Compliance
N/A		1	34	Blowdown for Regulatory Compliance
N/A		1	654	Tie-in Project
N/A		1	621	Tie-in Project
N/A		1	23	Blowdown associated with leak repair
N/A		1	56	Blowdown associated with leak repair
N/A		1	1,290	Blowdown associated with leak repair
N/A		1	17	Annual functional emergency shutdown test
N/A		1	17	Annual functional emergency shutdown test
N/A		1	375	Station Modernization
N/A	SCG Territory	4	0.04	Drips
N/A	SCG Territory	27	1	Filter Change-outs or Filter Inspections w/parts replacement - Estimated avg. gas vented = 30 scf/ea
N/A	SCG Territory	44	1	Meter/Orifice
N/A	SCG Territory	201	4	Relief Valve Inspections - Estimated avg. gas vented = 20 scf/insp (annual test with Nitrogen, gas vented is volume of gas in valve)
N/A	SCG Territory	127	0	Pneumatic Device Annual Inspections - Estimated avg. gas vented = 2 scf/insp (Actuator/Controller)
			13,825	

It appears that PI Vision was not conneted and these blowdowns are true

27,650

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Transmission Compressor Station Blowdowns:

ID	Geographic Location	Number of Blowdown Events	Annual Emissions (Mscf)	Explanatory Notes / Comments
N/A	92301	1	77	Blow Down Line 1185 to repair leak at valve 1185-0.00-0 (LDAR Program)
N/A	92363	1	498	Station blown down due to unplanned station ESD for a total of 468.72 mcf and 3 clark engines blown down for maintenance for a total of 29.42 mcf, making a monthly total of 498.14 mcf.
N/A	SoCalGas Territory	44	1	Orifice/Meters (they were not reported last year) (at th eproducer site and everything was reported in app2 in17)
N/A	SoCalGas Territory	212	4	Relief Valve Inspections - Estimated avg. gas vented = 20 scf/insp (annual test with Nitrogen, gas vented is volume of gas in valve)
N/A	SoCalGas Territory	6	60	Drip
N/A	SoCalGas Territory	42	1	Filter Change-outs or Filter Inspections w/parts replacement - Estimated avg. gas vented = 30 scf/ea
N/A	SoCalGas Territory	115	0	Pneumatic Device Annual Inspections - Estimated avg. gas vented = 2 scf/insp
N/A	92225	93	2920	Maintenance Blowdowns
N/A	92363	9	708	Maintenance Blowdowns
N/A	92365	3	36	LDAR Blowdown
N/A	SoCalGas Territory	3	1303	ESD test & Maint
N/A	92363	16	347	Maintenance Blowdowns
N/A	93313	183	4997	Maintenance Blowdowns
N/A	93001	8	27	Maintenance Blowdowns
Sum Total			10,979	

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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 Blowdowns worksheet.

Transmission Compressor Station Component Vented Emissions:

ID/Number of Devices	Geographic Location	Device Type	Bleed Rate	Manufacturer	Engineering or Manufacturer's based Estimate of Emissions (Mscf/day/dev)	Annual Emissions (Mscf)	Explanatory Notes / Comments
18	92301 P	I		NA	0.0576	378	
2	92301 P	L			0.0336	25	
21	92225 P	I		NA	0.0576	442	
7	92351 P	I		NA	0.0576	147	
109	92365 P	I		NA	0.0576	2292	
19	92363 P	I		NA	0.0576	399	
3	92363 P	L			0.0336	37	
27	92363 P	I		NA	0.0576	568	

Sum Total 4,287

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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

Transmission Compressor Station: Compressor and Component Fugitive Leaks:										12/31/19	01/01/19
ID	Geographic Location	Facility/Device Type	Emission Factor: Mscf/day/dev	Manufacturer	Discovery Date (MM/DD/YY)	Repair Date (MM/DD/YY)	Prior Survey Date (MM/DD/YY)	Number of Days Leaking	Annual Emissions (Mscf)	Explanatory Notes / Comments	
1039.06	92225	C	0.1370		3/6/2018	2/26/2019	9/6/2017	449	61		
1039.11	92225	C	0.1370		3/6/2018	3/4/2019	9/6/2017	455	62		
785	92225	V	0.1541		3/8/2018	3/4/2019	9/6/2017	454	70		
459	92225	C	0.1342		4/30/2018	4/19/2019	3/20/2018	376	50		
460	92225	C	0.1342		4/30/2018	4/18/2019	3/20/2018	375	50		
462	92225	C	0.1342		4/30/2018	4/18/2019	3/20/2018	375	50		
463	92225	C	0.1342		4/30/2018	4/18/2019	3/20/2018	375	50		
221	92225	V	0.1541		4/30/2018	PENDING	3/20/2018	632	97		
233	92225	V	0.1541		4/30/2018	PENDING	3/19/2018	632	97		
242	92225	V	0.1541		4/30/2018	PENDING	3/19/2018	632	97		
437	92225	C	0.1342		5/1/2018	4/19/2019	3/20/2018	375	50		
438	92225	C	0.1342		5/1/2018	4/19/2019	3/20/2018	375	50		
439	92225	C	0.1342		5/1/2018	5/1/2019	3/20/2018	387	52		
441	92225	C	0.1342		5/1/2018	5/1/2019	3/20/2018	387	52		
442	92225	C	0.1342		5/1/2018	4/19/2019	3/20/2018	375	50		
763.02	92225	V	0.1541		5/1/2018	5/1/2019	3/8/2018	393	61		
818	92225	V	0.1541		5/1/2018	PENDING	3/26/2018	628	97		
444	92225	C	0.1342		5/2/2018	5/7/2019	3/20/2018	393	53		
430	92225	C	0.1342		5/2/2018	8/27/2019	3/20/2018	505	68		
431	92225	C	0.1342		5/2/2018	8/27/2019	3/20/2018	505	68		
432	92225	C	0.1342		5/2/2018	8/27/2019	3/20/2018	505	68		
434	92225	C	0.1342		5/2/2018	8/27/2019	3/20/2018	505	68		
448	92225	C	0.1342		5/2/2018	5/7/2019	3/20/2018	393	53		
449	92225	C	0.1342		5/2/2018	5/7/2019	3/20/2018	393	53		
452	92225	C	0.1342		5/2/2018	4/18/2019	3/20/2018	374	50		
453	92225	C	0.1342		5/2/2018	4/18/2019	3/20/2018	374	50		
455	92225	C	0.1342		5/2/2018	4/18/2019	3/20/2018	374	50		
456	92225	C	0.1342		5/2/2018	4/18/2019	3/20/2018	374	50		
726	92225	V	0.1541		5/2/2018	PENDING	3/7/2018	637	98		
383	92225	C	0.1342		5/17/2018	2/27/2019	3/20/2018	316	42		
384	92225	C	0.1342		5/17/2018	2/27/2019	3/20/2018	316	42		
385	92225	C	0.1342		5/17/2018	3/4/2019	3/20/2018	321	43		
385	92225	C	0.1342		5/17/2018	2/27/2019	3/7/2018	323	43		
386	92225	C	0.1342		5/17/2018	2/27/2019	3/7/2018	323	43		
386	92225	C	0.1342		5/17/2018	2/27/2019	3/7/2018	323	43		
386	92225	C	0.1342		5/17/2018	2/27/2019	3/7/2018	323	43		
389	92225	C	0.1342		5/17/2018	5/1/2019	3/7/2018	386	52		
390	92225	C	0.1342		5/17/2018	3/4/2019	3/7/2018	328	44		
391	92225	C	0.1342		5/17/2018	5/1/2019	3/7/2018	386	52		
505	92225	V	0.1541		5/17/2018	2/14/2019	3/8/2018	309	48		
506.12	92225	V	0.1541		5/17/2018	2/8/2019	3/8/2018	303	47		
130	92225	V	0.1541		5/21/2018	2/27/2019	3/7/2018	321	49		
134	92225	V	0.1541		5/21/2018	2/26/2019	3/7/2018	320	49		
989	92225	V	0.1541		5/21/2018	1/29/2020	3/6/2018	628	97		
1008	92225	V	0.1541		5/22/2018	2/24/2020	3/6/2018	628	97		
1015.05	92225	V	0.1541		5/22/2018	11/12/2019	3/6/2018	579	89		
1022	92225	V	0.1541		5/22/2018	pending	3/6/2018	628	97		

253	92225	V	0.1541	10/24/2018	PENDING	7/16/2018	484	75
749	92225	V	0.1541	11/5/2018	10/17/2019	7/31/2018	396	61
696	92225	PR	0.0984	11/8/2018	11/12/2019	7/31/2018	420	41
1015	92225	V	0.1541	11/8/2018	2/24/2020	8/13/2018	463	71
495.05	92225	C	0.1370	2/4/2019	2/5/2019	11/8/2018	46	6
505.1	92225	C	0.1370	2/4/2019	2/7/2019	11/8/2018	48	7
1064.03	92225	V	0.1541	2/4/2019	2/4/2019	11/5/2018	47	7
402.15	92225	C	0.1370	2/6/2019	2/14/2019	11/8/2018	54	7
275	92225	PR	0.0482	2/7/2019	2/26/2020	11/8/2018	374	18
266	92225	V	0.1541	2/7/2019	10/17/2019	11/8/2018	299	46
477.04	92225	V	0.1541	2/7/2019	pending	11/8/2018	374	58
757.01	92225	C	0.1370	2/25/2019	2/25/2020	11/5/2018	366	50
858.09	92225	C	0.1370	2/25/2019	2/28/2019	11/7/2018	59	8
746	92225	V	0.1541	2/25/2019	2/28/2019	11/5/2018	60	9
747	92225	V	0.1541	2/25/2019	2/28/2019	11/5/2018	60	9
762.18	92225	V	0.1541	2/26/2019	10/29/2019	11/5/2018	303	47
379.07	92225	C	0.1370	2/27/2019	3/4/2019	11/8/2018	62	8
00384(A)	92225	C	0.1342	2/27/2019	3/4/2019	11/8/2018	62	8
00384(B)	92225	C	0.1342	2/27/2019	3/4/2019	11/8/2018	62	8
00385(B)	92225	C	0.1342	2/27/2019	3/4/2019	11/8/2018	62	8
00389(A)	92225	C	0.1342	2/27/2019	3/4/2019	11/8/2018	62	8
00390(A)	92225	C	0.1342	2/27/2019	3/4/2019	11/8/2018	62	8
395	92225	C	0.1342	2/27/2019	3/4/2019	11/8/2018	62	8
396	92225	C	0.1342	2/27/2019	3/4/2019	11/8/2018	62	8
397	92225	C	0.1342	2/27/2019	3/4/2019	11/8/2018	62	8
697.1	92225	V	0.1541	2/27/2019	3/1/2019	11/8/2018	59	9
698.07	92225	V	0.1541	2/27/2019	3/1/2019	11/8/2018	59	9
742	92225	V	0.1541	2/27/2019	3/1/2019	11/5/2018	60	9
163	92225	V	0.1541	4/16/2019	10/17/2019	2/7/2019	219	34
498.4	92225	V	0.1541	4/17/2019	4/18/2019	2/4/2019	38	6
498.4	92225	V	0.1541	4/17/2019	4/18/2019	2/4/2019	38	6
997.14	92225	C	0.1370	7/18/2019	11/12/2019	4/17/2019	164	22
148.1	92225	C	0.1370	7/18/2019	10/29/2019	4/16/2019	151	21
385	92225	C	0.1342	8/1/2019	12/15/2019	4/16/2019	191	26
386	92225	C	0.1342	8/1/2019	12/15/2019	4/16/2019	191	26
272	92225	PR	0.0482	10/15/2019	2/26/2020	7/18/2019	123	6
268	92225	V	0.1541	10/15/2019	10/17/2019	7/19/2019	47	7
2290.08	92225	V	0.1541	10/16/2019	10/17/2019	7/19/19	47	7
2287	92225	V	0.1541	10/16/2019	10/17/2019	7/19/19	47	7
824.07	92225	V	0.1541	10/16/2019	10/17/2019	7/18/19	47	7
766.15	92225	C	0.1370	10/28/2019	10/29/2019	9/6/2017	393	54
774.08	92225	C	0.1370	10/28/2019	10/29/2019	9/6/2017	393	54
967.05	92225	C	0.1370	10/29/2019	10/30/2019	7/17/19	54	7
980.07	92225	M	0.0703	10/29/2019	10/30/2019	7/17/19	54	4
988.55	92225	V	0.1541	10/29/2019	10/31/2019	7/18/19	55	8
1042.14	92225	C	0.1370	10/30/2019	10/31/2019	7/18/19	54	7
1806	92351	PR	0.0482	9/10/2018	3/10/2019	5/10/2018	244	12
1235.23	92351	C	0.1370	3/8/2019	3/8/2019	10/17/2018	72	10
1238.16	92351	V	0.1541	3/8/2019	3/8/2019	10/17/2018	72	11
1225	92351	V	0.1541	5/8/2019	5/13/2019	3/8/2019	37	6
1227	92351	V	0.1541	5/8/2019	5/13/2019	3/8/2019	37	6
1208	92351	V	0.1541	6/3/2019	1/22/2020	3/8/2019	256	39
1208.5	92351	C	0.1370	12/9/2019	12/9/2019	9/2/2019	50	7
1231.42	92351	C	0.1370	12/10/2019	12/10/2019	9/3/2019	50	7
1220	92351	C	0.1370	12/26/2019	12/31/2019	9/3/2019	63	9
896	92363	V	0.1541	9/18/2018	2/28/2019	5/7/2018	231	36
207.01	92363	C	0.1370	1/28/2019	pending	10/15/2018	391	53
1085.08	92363	V	0.1541	1/28/2019	1/31/2019	10/15/2018	57	9
1081.17	92363	V	0.1541	1/28/2019	1/31/2019	10/15/2018	57	9
1104.01	92363	V	0.1541	1/28/2019	1/31/2019	10/15/2018	57	9
832.14	92363	V	0.1541	1/28/2019	1/31/2019	10/15/2018	57	9
1099.1	92363	V	0.1541	1/28/2019	1/31/2019	10/15/2018	57	9

Newly added component - no prior CARB Oil & Gas or Subpart W leak surveys
Newly added component - no prior CARB Oil & Gas or Subpart W leak surveys

189	92363	PR	0.0482	1/29/2019	1/31/2019	10/15/2018	56	3
576	92363	V	0.1541	1/30/2019	2/1/2019	10/16/2018	56	9
1124	92363	V	0.1541	1/30/2019	2/1/2019	10/16/2018	56	9
1109.08	92363	C	0.1370	1/31/2019	2/1/2019	10/16/2018	56	8
1112.01	92363	C	0.1370	1/31/2019	2/1/2019	10/16/2018	56	8
1135	92363	C	0.1342	1/31/2019	2/1/2019	10/16/2018	56	7
1149	92363	C	0.1342	1/31/2019	2/5/2019	10/16/2018	60	8
1178	92363	C	0.1342	1/31/2019	2/5/2019	10/16/2018	60	8
885.01	92363	C	0.1370	1/31/2019	2/1/2019	10/16/2018	56	8
865.04	92363	V	0.1370	1/31/2019	2/1/2019	10/16/2018	56	8
876	92363	V	0.1370	1/31/2019	2/1/2019	10/16/2018	56	8
883	92363	V	0.1541	1/31/2019	2/1/2019	10/16/2018	56	9
885	92363	V	0.1541	1/31/2019	2/5/2019	10/16/2018	60	9
891	92363	V	0.1541	1/31/2019	2/5/2019	10/16/2018	60	9
897	92363	V	0.1541	1/31/2019	2/28/2019	10/16/2018	83	13
1132	92363	V	0.3562	1/31/2019	2/1/2019	10/16/2018	56	20
1505	92363	V	0.1541	1/31/2019	2/1/2019	10/16/2018	56	9
851.16	92363	C	0.1370	4/8/2019	4/10/2019	1/28/2019	38	5
853.14	92363	C	0.1370	4/8/2019	4/10/2019	1/28/2019	38	5
535	92363	C	0.1342	4/8/2019	4/10/2019	1/28/2019	38	5
536	92363	C	0.1342	4/8/2019	4/10/2019	1/28/2019	38	5
537	92363	C	0.1342	4/8/2019	4/10/2019	1/28/2019	38	5
538	92363	C	0.1342	4/8/2019	4/10/2019	1/28/2019	38	5
539	92363	C	0.1342	4/8/2019	4/10/2019	1/28/2019	38	5
852	92363	PR	0.0482	4/8/2019	4/10/2019	1/28/2019	38	2
831.06	92363	V	0.1541	4/8/2019	4/9/2019	1/28/2019	37	6
852.1	92363	V	0.1541	4/8/2019	4/10/2019	1/28/2019	38	6
1108.2	92363	C	0.1370	4/10/2019	4/10/2019	1/31/2019	36	5
1141	92363	C	0.1342	4/10/2019	4/11/2019	1/31/2019	37	5
871	92363	V	0.1541	4/10/2019	4/11/2019	1/31/2019	37	6
873	92363	V	0.1541	4/10/2019	4/11/2019	1/31/2019	37	6
877	92363	V	0.1541	4/10/2019	4/11/2019	1/31/2019	37	6
883	92363	V	0.1541	4/10/2019	4/11/2019	2/1/2019	36	6
1109	92363	V	0.1541	4/10/2019	4/10/2019	1/31/2019	36	5
1513	92363	V	0.1541	4/10/2019	4/10/2019	1/31/2019	36	5
1147	92363	C	0.1342	4/11/2019	4/11/2019	1/31/2019	36	5
1148	92363	C	0.1342	4/11/2019	4/11/2019	1/31/2019	36	5
1149	92363	C	0.1342	4/11/2019	4/11/2019	2/5/2019	34	4
1098	92363	PR	0.0482	7/8/2019	7/9/2019	4/8/2019	48	2
1081.46	92363	V	0.1541	7/8/2019	7/9/2019	4/8/2019	48	7
849.14	92363	C	0.1370	7/9/2019	pending	4/8/2019	222	30
570.06	92363	C	0.1370	7/10/2019	7/11/2019	4/10/2019	48	7
571.06	92363	C	0.1370	7/10/2019	7/11/2019	4/10/2019	48	7
875.03	92363	C	0.1370	7/10/2019	7/10/2019	4/10/2019	47	6
1135	92363	C	0.1342	7/10/2019	7/10/2019	4/10/2019	47	6
1136	92363	C	0.1342	7/10/2019	7/10/2019	4/10/2019	47	6
871	92363	V	0.1541	7/10/2019	7/10/2019	4/11/2019	46	7
890	92363	V	0.1541	7/10/2019	7/11/2019	4/10/2019	48	7
2280	92363	V	0.1541	7/10/2019	7/10/2019	12/18/2017	286	44
847.02	92363	C	0.1370	10/7/2019	10/10/2019	7/9/2019	49	7
526	92363	C	0.1342	10/7/2019	10/10/2019	7/9/2019	49	7
526.04	92363	C	0.1342	10/7/2019	10/10/2019	7/9/2019	49	7
526.08	92363	C	0.1342	10/7/2019	10/10/2019	7/9/2019	49	7
526.09	92363	C	0.1342	10/7/2019	10/10/2019	7/9/2019	49	7
527	92363	C	0.1342	10/7/2019	10/10/2019	7/9/2019	49	7
528.01	92363	C	0.1342	10/7/2019	10/10/2019	7/9/2019	49	7
529.04	92363	C	0.1342	10/7/2019	10/10/2019	7/9/2019	49	7
529.08	92363	C	0.1342	10/7/2019	10/10/2019	7/9/2019	49	7
530.08	92363	C	0.1342	10/7/2019	10/10/2019	7/9/2019	49	7
531	92363	C	0.1342	10/7/2019	10/10/2019	7/9/2019	49	7
531.01	92363	C	0.1342	10/7/2019	10/10/2019	7/9/2019	49	7
531.02	92363	C	0.1342	10/7/2019	10/10/2019	7/9/2019	49	7

Newly added component - no prior CARB Oil & Gas or Subpart W leak surveys

531.11	92363	C	0.1342	10/7/2019	10/10/2019	7/9/2019	49	7	
531.15	92363	C	0.1342	10/7/2019	10/10/2019	7/9/2019	49	7	
848	92363	PR	0.0482	10/7/2019	10/10/2019	7/9/2019	49	2	
1082	92363	PR	0.0482	10/7/2019	10/16/2019	7/9/2019	55	3	
848.09	92363	V	0.1541	10/7/2019	10/10/2019	7/9/2019	49	8	
848.07	92363	V	0.1541	10/7/2019	10/10/2019	7/9/2019	49	8	
834.02	92363	C	0.1370	10/8/2019	10/9/2019	7/9/2019	48	7	
1098	92363	PR	0.0482	10/8/2019	10/16/2019	7/9/2019	55	3	
828.48	92363	V	0.1541	10/8/2019	10/8/2019	7/9/2019	47	7	
1168.24	92363	C	0.1342	10/9/2019	10/10/2019	7/10/2019	48	6	
1169.02	92363	C	0.1342	10/9/2019	10/10/2019	7/10/2019	48	6	
1169.27	92363	C	0.1342	10/9/2019	10/10/2019	7/10/2019	48	6	
1170.06	92363	C	0.1342	10/9/2019	10/10/2019	7/10/2019	48	6	
1171	92363	C	0.1342	10/9/2019	10/11/2019	7/10/2019	49	7	
1169.26	92363	C	0.1342	10/9/2019	10/11/2019	7/10/2019	49	7	
1170.13	92363	C	0.1342	10/9/2019	10/10/2019	7/10/2019	48	6	
189	92363	PR	0.0482	10/9/2019	10/9/2019	7/9/2019	47	2	
1168.29	92363	V	0.3562	10/9/2019	10/10/2019	7/10/2019	48	17	
2068	92363	V	0.1541	10/9/2019	10/9/2019	7/9/2019	47	7	
1124	92363	V	0.1541	10/10/2019	10/11/2019	7/12/2019	47	7	
1318	92365	V	0.1541	2/14/18	10/17/19	none	290	45	carryover from 2018 - no prior CARB Oil & Gas or Subpart W leak surveys.
1319	92365	V	0.1541	2/14/18	10/17/19	none	290	45	carryover from 2018 - no prior CARB Oil & Gas or Subpart W leak surveys.
1559	92365	V	0.1541	2/19/2019	2/22/2019	10/31/2018	60	9	
1249	92365	V	0.1541	2/19/2019	2/22/2019	10/30/2018	60	9	
1264	92365	V	0.1541	2/19/2019	2/22/2019	10/30/2018	60	9	
1332.01	92365	C	0.1370	2/20/2019	2/25/2019	10/30/2018	63	9	
1328.06	92365	C	0.1370	2/20/2019	2/20/2019	10/30/2018	58	8	
1308.06	92365	C	0.1370	2/20/2019	2/20/2019	10/30/2018	58	8	
1309.06	92365	C	0.1370	2/20/2019	2/20/2019	10/30/2018	58	8	
1841.11	92365	C	0.1370	7/23/2019	7/23/2019	6/6/2019	25	3	
1841	92365	M	0.0703	7/23/2019	7/23/2019	6/6/2019	25	2	
1517.03	92365	V	0.1541	7/24/2019	7/25/2019	6/5/2019	27	4	
1311.23	92365	V	0.1541	7/24/2019	7/25/2019	4/23/2019	48	7	
1329.04	92365	C	0.1370	10/23/2019	10/23/2019	7/24/2019	47	6	
1303.11	92365	C	0.1370	10/23/2019	10/24/2019	7/24/2019	48	7	
1304.12	92365	C	0.1370	10/23/2019	10/24/2019	7/24/2019	48	7	
1328.01	92365	C	0.1370	10/23/2019	10/24/2019	7/24/2019	48	7	
1304.02	92365	C	0.1370	10/23/2019	2/18/2020	7/24/2019	116	16	
1304.01	92365	C	0.1370	10/23/2019	2/18/2020	7/24/2019	116	16	
1315.29	92365	C	0.1370	10/24/2019	10/24/2019	7/24/2019	47	6	
1314.12	92365	C	0.1370	10/24/2019	10/24/2019	7/24/2019	47	6	
1319	92365	V	0.1541	10/25/2019	pending	7/24/2019	115	18	
1487	93001	V	0.1541	3/15/2018	1/10/2020	9/27/2017	742	114	carryover from 2018 - no prior CARB Oil & Gas or Subpart W leak surveys. I looked at the last year survey date
1482	93001	V	0.1541	3/15/2018	1/27/2020	9/27/2017	742	114	carryover from 2018 - no prior CARB Oil & Gas or Subpart W leak surveys. I looked at the last year survey date
1459.26	93001	C	0.1370	3/13/2019	3/13/2019	12/5/2018	50	7	
1459.27	93001	C	0.1370	3/13/2019	3/13/2019	12/5/2018	50	7	
2057	93001	V	0.1541	3/14/2019	3/14/2019	12/5/2018	51	8	
2018	93001	V	0.3562	3/14/2019	3/14/2019	12/5/2018	51	18	
2028	93001	V	0.3562	3/14/2019	3/14/2019	12/5/2018	51	18	
2038	93001	V	0.3562	3/14/2019	3/14/2019	12/5/2018	51	18	
2031	93001	C	0.1342	6/12/2019	6/28/2019	3/13/2019	63	8	
2021	93001	C	0.1342	6/12/2019	6/28/2019	3/13/2019	63	8	
1490.13	93001	C	0.1370	8/21/2019	8/21/2019	6/10/2019	37	5	
1479.08	93001	V	0.1541	8/21/2019	8/21/2019	6/10/2019	37	6	
1481.03	93001	V	0.1541	8/21/2019	8/21/2019	6/10/2019	37	6	
1483.49	93001	V	0.1541	8/21/2019	8/21/2019	6/10/2019	37	6	
1452.28	93001	C	0.1370	11/19/2019	11/19/2019	6/11/2019	82	11	
1700	93001	O	0.0984	11/19/2019	11/19/2019	6/11/2019	82	8	
2022.03	93001	V	0.3562	12/18/2019	12/18/2019	6/11/2019	96	34	
1603.09	93201	C	0.1370	2/11/2019	2/13/2019	11/14/2018	48	7	
1605.24	93201	C	0.1370	2/11/2019	2/13/2019	11/14/2018	48	7	
2210.18	93201	C	0.1370	2/11/2019	2/13/2019	9/22/2017	257	35	Newly added component - no prior CARB Oil & Gas or Subpart W leak surveys I looked at the last year survey date

1605.18	93201	O	0.0984	2/11/2019	11/13/2019	11/14/2018	321	32	
1603	93201	PR	0.0482	2/11/2019	10/1/2019	11/14/2018	278	13	
1603.31	93201	V	0.1541	2/11/2019	10/1/2019	11/14/2018	278	43	
1603.42	93201	V	0.1541	2/11/2019	10/1/2019	11/14/2018	278	43	
2210.04	93201	V	0.1541	2/11/2019	2/13/2019	9/22/2017	257	40	Newly added component - no prior CARB Oil & Gas or Subpart W leak surveys I looked at the last year survey date
1362.07	93201	V	0.1541	2/12/2019	3/20/2019	11/14/2018	82	13	
1361	93201	V	0.1541	2/12/2019	3/20/2019	11/14/2018	82	13	
1901.05	93201	C	0.1370	5/7/2019	5/7/2019	2/11/2019	44	6	
1901	93201	PR	0.0482	5/7/2019	11/13/2019	2/11/2019	234	11	
1904	93201	PR	0.0482	5/7/2019	3/5/2020	2/11/2019	282	14	
1900	93201	V	0.1541	5/7/2019	3/5/2020	2/11/2019	282	43	
1901.04	93201	V	0.1541	5/7/2019	5/7/2019	2/11/2019	44	7	
2210.18	93201	C	0.1370	8/7/2019	8/7/2019	5/7/2019	47	6	
1356.01	93201	O	0.0984	12/12/2019	12/13/2019	8/5/2019	67	7	
1614.35	93201	C	0.1370	12/13/2019	12/18/2019	8/5/2019	71	10	
1615.51	93201	C	0.1370	12/13/2019	12/18/2019	8/5/2019	71	10	
1615.58	93201	C	0.1370	12/13/2019	12/18/2019	8/5/2019	71	10	
1615.61	93201	C	0.1370	12/13/2019	12/18/2019	8/5/2019	71	10	
1615.103	93201	C	0.1370	12/13/2019	12/18/2019	8/5/2019	71	10	
1619.24	93201	C	0.1370	12/13/2019	12/18/2019	8/5/2019	71	10	
1619.35	93201	C	0.1370	12/13/2019	12/18/2019	8/5/2019	71	10	
1619.38	93201	C	0.1370	12/13/2019	12/18/2019	8/5/2019	71	10	
1619.52	93201	C	0.1370	12/13/2019	12/18/2019	8/5/2019	71	10	
1619.59	93201	C	0.1370	12/13/2019	12/18/2019	8/5/2019	71	10	
1614.26	93201	M	0.0703	12/13/2019	12/18/2019	8/5/2019	71	5	
1615.44	93201	M	0.0703	12/13/2019	12/18/2019	8/5/2019	71	5	
1619.3	93201	M	0.0703	12/13/2019	12/18/2019	8/5/2019	71	5	
1649	93313	PR	0.0482	4/19/2018	3/18/2019	2/12/2018	367	18	carryover from 2018 - no prior CARB Oil & Gas or Subpart W leak surveys. CARB Oil & Gas surveys started in 1Q, 2018.
1674.1	93313	C	0.1370	3/18/2019	3/20/2019	12/11/2018	52	7	
1633	93313	V	0.1541	3/18/2019	3/18/2019	12/11/2018	50	8	
1644	93313	V	0.1541	3/18/2019	3/18/2019	12/11/2018	50	8	
1377	93313	PR	0.0482	3/19/2019	5/20/2019	12/11/2018	112	5	
1402	93313	V	0.1541	3/19/2019	3/20/2019	12/11/2018	51	8	
1412	93313	V	0.1541	5/29/2019	5/30/2019	3/19/2019	38	6	
1412	93313	V	0.1541	8/27/2019	8/28/2019	5/30/2019	47	7	
1643.12	93313	C	0.1370	8/28/2019	8/28/2019	5/30/2019	46	6	
1936.06	93313	V	0.3562	8/28/2019	8/28/2019	5/30/2019	46	16	
1632.02	93313	V	0.1541	8/28/2019	8/28/2019	5/30/2019	46	7	
1654	93313	V	0.1541	8/28/2019	8/28/2019	5/30/2019	46	7	
1655.27	93313	C	0.1370	12/4/2019	12/4/2019	12/31/2018	170	23	
1984.05	93313	V	0.1541	12/4/2019	12/4/2019	9/30/2019	34	5	
1412	93313	V	0.1541	12/4/2019	12/4/2019	9/28/2019	35	5	
1422	93313	V	0.1541	12/4/2019	12/4/2019	9/28/2019	35	5	

Sum Total **5,858**

SoCalGas, June 14, 2019

Rulemaking (R.) 15-01-008 to Adopt Rules and Procedures Governing Commission Regulated Natural Gas Pipelines and Facilities to Reduce Natural In Response to Data Request, R15-01-008 - 2019 June Report

Appendix 3 - Rev. 03/29/19

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

Transmission Compressor Station: Compressor and Co			12/31/18	01/01/18				
ID	Geographic Location	Device Type	Discovery Date (MM/DD/YY)	Repair Date (MM/DD/YY)	Prior Survey Date (MM/DD/YY)	Number of Days Leaking	Annual Emissions (Mscf)	Explanatory Notes / Comments
6670560	91355	V	03/13/18	3/16/18	3/1/18	10	2	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.
6670560	91355	V	03/13/18	3/16/18	3/1/18	10	2	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.
6670560	91355	V	03/13/18	3/16/18	3/1/18	10	2	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.
00978	92225	V	3/6/18	3/6/18	9/28/17	81	22	Appendix 9 - Non-compressor components EF
1038	92225	V	3/6/18	3/9/18	9/28/17	84	23	Appendix 9 - Non-compressor components EF
00988	92225	V	3/6/18	5/21/18	9/28/17	157	15	Appendix 9 - Non-compressor components EF
1033	92225	V	3/6/18	3/9/18	9/28/17	84	8	Appendix 9 - Non-compressor components EF
1037	92225	V	3/6/18	3/19/18	9/28/17	94	9	Appendix 9 - Non-compressor components EF
1022	92225	V	3/6/18	3/19/18	9/28/17	94	5	Appendix 9 - Non-compressor components EF
01015	92225	V	3/6/18	3/19/18	9/28/17	94	15	Appendix 9 - Non-compressor components EF
01041	92225	V	3/6/18	3/9/18	9/28/17	84	13	Appendix 9 - Non-compressor components EF
00702.15	92225	C	3/6/18	3/9/18	9/28/17	84	13	Appendix 9 - Non-compressor components EF
00702.13	92225	C	3/6/18	3/19/18	9/28/17	94	15	Appendix 9 - Non-compressor components EF
00980.02	92225	Other	3/6/18	3/9/18	9/28/17	84	13	Appendix 9 - Non-compressor components EF
00979.02	92225	Other	3/6/18	3/9/18	9/28/17	84	13	Appendix 9 - Non-compressor components EF
01039.06	92225	C	3/6/18	2/26/19	9/28/17	381	60	Appendix 9 - Non-compressor components EF
01038.01	92225	C	3/6/18	3/9/18	9/28/17	84	13	Appendix 9 - Non-compressor components EF
00988.16	92225	C	3/6/18	3/6/18	9/28/17	81	13	Appendix 9 - Non-compressor components EF
00983	92225	Other	3/6/18	3/9/18	9/28/17	84	13	Appendix 9 - Non-compressor components EF
01042.15	92225	V	3/6/18	3/9/18	9/28/17	84	13	Appendix 9 - Non-compressor components EF
00984.02	92225	V	3/6/18	3/9/18	9/28/17	84	13	Appendix 9 - Non-compressor components EF
00982.17	92225	O	3/6/18	3/6/18	9/28/17	81	11	Appendix 9 - Non-compressor components EF
00982.20	92225	O	3/6/18	3/6/18	9/28/17	81	11	Appendix 9 - Non-compressor components EF
01041.18	92225	C	3/6/18	3/9/18	9/28/17	84	12	Appendix 9 - Non-compressor components EF

00703.06	92225	C	3/6/18	3/9/18	9/28/17	84	12	Appendix 9 - Non-compressor components EF
01042.16	92225	C	3/6/18	3/9/18	9/28/17	84	12	Appendix 9 - Non-compressor components EF
1029.05	92225	C	3/6/18	3/19/18	9/28/17	94	13	Appendix 9 - Non-compressor components EF
00965.11	92225	C	3/6/18	3/6/18	9/28/17	81	11	Appendix 9 - Non-compressor components EF
01028.03	92225	C	3/6/18	3/6/18	9/28/17	81	11	Appendix 9 - Non-compressor components EF
00984	92225	PR	3/6/18	11/7/18	9/28/17	327	46	Appendix 9 - Non-compressor components EF
00708.08	92225	C	3/6/18	3/19/18	9/28/17	94	13	Appendix 9 - Non-compressor components EF
1029.17	92225	V	3/6/18	3/19/18	9/28/17	94	13	Appendix 9 - Non-compressor components EF
00984.01	92225	C	3/6/18	3/9/18	9/28/17	84	12	Appendix 9 - Non-compressor components EF
00990.11	92225	C	3/6/18	3/6/18	9/28/17	81	11	Appendix 9 - Non-compressor components EF
01029.22	92225	C	3/6/18	3/19/18	9/28/17	94	13	Appendix 9 - Non-compressor components EF
00980.05	92225	C	3/6/18	3/9/18	9/28/17	84	12	Appendix 9 - Non-compressor components EF
01039.11	92225	C	3/6/18	3/4/19	9/28/17	381	53	Appendix 9 - Non-compressor components EF
00702.11	92225	C	3/6/18	3/19/18	9/28/17	94	13	Appendix 9 - Non-compressor components EF
00698.07	92225	V	3/7/18	3/9/18	9/28/17	83	12	Appendix 9 - Non-compressor components EF
00696.12	92225	V	3/7/18	3/9/18	9/28/17	83	12	Appendix 9 - Non-compressor components EF
00734	92225	V	3/7/18	3/9/18	9/28/17	83	12	Appendix 9 - Non-compressor components EF
00114.12	92225	V	3/7/18	3/9/18	9/28/17	83	12	Appendix 9 - Non-compressor components EF
00695.13	92225	V	3/7/18	3/9/18	9/28/17	83	12	Appendix 9 - Non-compressor components EF
00701.21	92225	C	3/7/18	3/19/18	9/28/17	93	13	Appendix 9 - Non-compressor components EF
00379.04	92225	Other	3/7/18	3/19/18	9/28/17	93	13	Appendix 9 - Non-compressor components EF
00380.04	92225	Other	3/7/18	3/19/18	9/28/17	93	13	Appendix 9 - Non-compressor components EF
00122.01	92225	C	3/7/18	3/19/18	9/28/17	93	13	Appendix 9 - Non-compressor components EF
00700.01	92225	C	3/7/18	5/21/18	9/28/17	156	22	Appendix 9 - Non-compressor components EF
00380.10	92225	Other	3/7/18	3/19/18	9/28/17	93	13	Appendix 9 - Non-compressor components EF
00378.10	92225	Other	3/7/18	3/20/18	9/28/17	94	13	Appendix 9 - Non-compressor components EF
00384	92225	C	3/7/18	3/9/18	9/28/17	83	8	Appendix 9 - compressor components EF
00396.01	92225	C	3/7/18	3/9/18	9/28/17	83	8	Appendix 9 - compressor components EF
00396	92225	C	3/7/18	3/9/18	9/28/17	83	8	Appendix 9 - compressor components EF
00389	92225	C	3/7/18	3/9/18	9/28/17	83	8	Appendix 9 - compressor components EF
00386	92225	C	3/7/18	3/9/18	9/28/17	83	8	Appendix 9 - compressor components EF
00383	92225	C	3/7/18	3/7/18	9/28/17	81	8	Appendix 9 - compressor components EF
00390	92225	C	3/7/18	3/9/18	9/28/17	83	8	Appendix 9 - compressor components EF
00397	92225	C	3/7/18	3/9/18	9/28/17	83	8	Appendix 9 - compressor components EF
00391	92225	C	3/7/18	3/7/18	9/28/17	81	8	Appendix 9 - compressor components EF
00383.01	92225	C	3/7/18	3/9/18	9/28/17	83	8	Appendix 9 - compressor components EF
00384.01	92225	C	3/7/18	3/7/18	9/28/17	81	8	Appendix 9 - compressor components EF
00385	92225	C	3/7/18	3/7/18	9/28/17	81	8	Appendix 9 - compressor components EF
00395	92225	C	3/7/18	3/9/18	9/28/17	83	8	Appendix 9 - compressor components EF
00113.06	92225	V	3/7/18	3/9/18	9/28/17	83	8	Appendix 9 - Non-compressor components EF
00379.12	92225	C	3/7/18	3/20/18	9/28/17	94	9	Appendix 9 - Non-compressor components EF

00696	92225	PR	3/7/18	3/9/18	9/28/17	83	8	Appendix 9 - Non-compressor components EF
00109.03	92225	C	3/7/18	3/9/18	9/28/17	83	8	Appendix 9 - Non-compressor components EF
00698.20	92225	C	3/7/18	3/9/18	9/28/17	83	8	Appendix 9 - Non-compressor components EF
00701.24	92225	C	3/7/18	3/19/18	9/28/17	93	15	Appendix 9 - Non-compressor components EF
00697.04	92225	C	3/7/18	3/9/18	9/28/17	83	13	Appendix 9 - Non-compressor components EF
00567.06	92225	V	3/8/18	3/9/18	9/28/17	83	13	Appendix 9 - Non-compressor components EF
00564.22	92225	O	3/8/18	3/9/18	9/28/17	83	13	Appendix 9 - Non-compressor components EF
0766.03	92225	V	3/8/18	3/9/18	9/28/17	83	13	Appendix 9 - Non-compressor components EF
00763.02	92225	V	3/8/18	3/9/18	9/28/17	83	13	Appendix 9 - Non-compressor components EF
00776.03	92225	V	3/8/18	3/19/18	9/28/17	93	13	Appendix 9 - Non-compressor components EF
00749	92225	V	3/8/18	3/19/18	9/28/17	93	13	Appendix 9 - Non-compressor components EF
00761.12	92225	V	3/8/18	3/9/18	9/28/17	83	12	Appendix 9 - Non-compressor components EF
00785	92225	V	3/8/18	3/4/19	9/28/17	380	53	Appendix 9 - Non-compressor components EF
00857.12	92225	C	3/8/18	3/19/18	9/28/17	93	13	Appendix 9 - Non-compressor components EF
784.01	92225	C	3/8/18	3/9/18	9/28/17	83	12	Appendix 9 - Non-compressor components EF
00426.01	92225	C	3/8/18	3/9/18	9/28/17	83	12	Appendix 9 - Non-compressor components EF
00785.04	92225	V	3/8/18	3/19/18	9/28/17	93	13	Appendix 9 - Non-compressor components EF
00785.10	92225	V	3/8/18	3/19/18	9/28/17	93	13	Appendix 9 - Non-compressor components EF
00505.15	92225	V	3/8/18	3/9/18	9/28/17	83	12	Appendix 9 - Non-compressor components EF
00760.14	92225	C	3/8/18	3/9/18	9/28/17	83	12	Appendix 9 - Non-compressor components EF
00572.21	92225	O	3/8/18	3/9/18	9/28/17	83	12	Appendix 9 - Non-compressor components EF
00739	92225	PR	3/8/18	3/9/18	9/28/17	83	12	Appendix 9 - Non-compressor components EF
01067	92225	Other	3/8/18	3/9/18	9/28/17	83	12	Appendix 9 - Non-compressor components EF
00757.06	92225	C	3/8/18	8/1/18	9/28/17	228	63	Appendix 9 - Non-compressor components EF
00752.05	92225	C	3/8/18	3/9/18	9/28/17	83	23	Appendix 9 - Non-compressor components EF
00760.17	92225	C	3/8/18	3/9/18	9/28/17	83	8	Appendix 9 - Non-compressor components EF
01042.18	92225	V	3/9/18	3/9/18	9/28/17	82	8	Appendix 9 - Non-compressor components EF
00390.01	92225	C	3/9/18	3/9/18	9/28/17	82	13	Appendix 9 - Non-compressor components EF
00221	92225	V	3/19/18	3/23/18	9/28/17	91	14	Appendix 9 - Non-compressor components EF
00263.17	92225	C	3/19/18	3/23/18	9/28/17	91	14	Appendix 9 - Non-compressor components EF
00208.04	92225	C	3/19/18	3/23/18	9/28/17	91	14	Appendix 9 - Non-compressor components EF
00209.11	92225	C	3/19/18	3/23/18	9/28/17	91	14	Appendix 9 - Non-compressor components EF
00233.11	92225	C	3/19/18	3/23/18	9/28/17	91	14	Appendix 9 - Non-compressor components EF
00233.09	92225	C	3/19/18	3/23/18	9/28/17	91	14	Appendix 9 - Non-compressor components EF
00263.10	92225	C	3/19/18	3/23/18	9/28/17	91	14	Appendix 9 - Non-compressor components EF
0243.14	92225	C	3/19/18	3/23/18	9/28/17	91	14	Appendix 9 - Non-compressor components EF
00477	92225	V	3/20/18	3/23/18	9/28/17	91	14	Appendix 9 - Non-compressor components EF
00429	92225	V	3/20/18	3/20/18	9/28/17	88	12	Appendix 9 - compressor components EF
00436	92225	V	3/20/18	3/23/18	9/28/17	91	13	Appendix 9 - compressor components EF
00457	92225	V	3/20/18	3/20/18	9/28/17	88	12	Appendix 9 - compressor components EF
00443	92225	V	3/20/18	3/23/18	9/28/17	91	13	Appendix 9 - compressor components EF

[illegible]

00151.13	92225	Other	3/20/18	3/23/18	9/28/17	91	9	Appendix 9 - Non-compressor components EF
00429.05	92225	C	3/20/18	3/23/18	9/28/17	91	9	Appendix 9 - compressor components EF
00450.05	92225	C	3/20/18	3/23/18	9/28/17	91	9	Appendix 9 - compressor components EF
00165.14	92225	C	3/20/18	3/23/18	9/28/17	91	9	Appendix 9 - Non-compressor components EF
00476.06	92225	C	3/20/18	3/23/18	9/28/17	91	9	Appendix 9 - Non-compressor components EF
00476.23	92225	C	3/20/18	3/23/18	9/28/17	91	9	Appendix 9 - Non-compressor components EF
00820.12	92225	V	3/26/18	3/28/18	9/28/17	93	9	Appendix 9 - Non-compressor components EF
00859	92225	V	3/26/18	3/28/18	9/28/17	93	9	Appendix 9 - Non-compressor components EF
00820.10	92225	V	3/26/18	3/28/18	9/28/17	93	9	Appendix 9 - Non-compressor components EF
00802.08	92225	V	3/26/18	3/28/18	9/28/17	93	9	Appendix 9 - Non-compressor components EF
00814.08	92225	V	3/26/18	3/28/18	9/28/17	93	9	Appendix 9 - Non-compressor components EF
00795.06	92225	V	3/26/18	3/28/18	9/28/17	93	15	Appendix 9 - Non-compressor components EF
00808.08	92225	V	3/26/18	3/28/18	9/28/17	93	15	Appendix 9 - Non-compressor components EF
00820.11	92225	C	3/26/18	3/28/18	9/28/17	93	15	Appendix 9 - Non-compressor components EF
00794	92225	PR	3/26/18	3/9/18	9/28/17	74	12	Appendix 9 - Non-compressor components EF
00794.08	92225	V	3/26/18	3/26/18	9/28/17	91	14	Appendix 9 - Non-compressor components EF
00824.06	92225	C	3/26/18	3/28/18	9/28/17	93	15	Appendix 9 - Non-compressor components EF
00806.16	92225	C	3/26/18	3/28/18	9/28/17	93	15	Appendix 9 - Non-compressor components EF
00808.15	92225	C	3/26/18	3/28/18	9/28/17	93	15	Appendix 9 - Non-compressor components EF
824.07	92225	V	4/30/18	5/4/18	3/6/18	33	5	Appendix 9 - Non-compressor components EF
861	92225	V	4/30/18	5/4/18	3/6/18	33	5	Appendix 9 - Non-compressor components EF
221	92225	V	4/30/18	PENDING	3/19/18	267	37	Appendix 9 - Non-compressor components EF
233	92225	V	4/30/18	PENDING	3/19/18	267	37	Appendix 9 - Non-compressor components EF
242	92225	V	4/30/18	PENDING	3/19/18	267	37	Appendix 9 - Non-compressor components EF
484.1	92225	Other	4/30/18	5/4/18	3/7/18	32	4	Appendix 9 - Non-compressor components EF
459	92225	C	4/30/18	4/19/19	3/7/18	273	38	Appendix 9 - compressor components EF
460	92225	C	4/30/18	4/18/19	3/7/18	273	38	Appendix 9 - compressor components EF
462	92225	C	4/30/18	4/18/19	3/7/18	273	38	Appendix 9 - compressor components EF
463	92225	C	4/30/18	4/18/19	3/7/18	273	38	Appendix 9 - compressor components EF
163	92225	V	4/30/18	5/4/18	3/19/18	26	4	Appendix 9 - Non-compressor components EF
156.09	92225	V	4/30/18	7/19/18	3/19/18	102	14	Appendix 9 - Non-compressor components EF
477.1	92225	C	4/30/18	5/4/18	3/7/18	32	4	Appendix 9 - Non-compressor components EF
221.17	92225	C	4/30/18	5/4/18	3/19/18	26	4	Appendix 9 - Non-compressor components EF
270.1	92225	V	4/30/18	5/4/18	3/19/18	26	4	Appendix 9 - Non-compressor components EF
211	92225	PR	4/30/18	5/4/18	3/19/18	26	4	Appendix 9 - Non-compressor components EF
241.03	92225	C	4/30/18	5/4/18	3/19/18	26	4	Appendix 9 - Non-compressor components EF
221.13	92225	C	4/30/18	5/4/18	3/19/18	26	4	Appendix 9 - Non-compressor components EF
862.01	92225	C	4/30/18	5/4/18	3/26/18	23	3	Appendix 9 - Non-compressor components EF
763.02	92225	V	5/1/18	5/1/19	3/7/18	273	38	Appendix 9 - Non-compressor components EF
818	92225	V	5/1/18	PENDING	3/26/18	263	37	Appendix 9 - Non-compressor components EF
857	92225	V	5/1/18	11/6/18	3/26/18	208	29	Appendix 9 - Non-compressor components EF

788.01	92225	V	5/1/18	11/6/18	3/7/18	218	30	Appendix 9 - Non-compressor components EF
795.06	92225	V	5/1/18	5/4/18	3/7/18	32	4	Appendix 9 - Non-compressor components EF
760.01	92225	C	5/1/18	5/4/18	3/7/18	32	4	Appendix 9 - Non-compressor components EF
437	92225	C	5/1/18	4/19/19	3/7/18	273	38	Appendix 9 - compressor components EF
438	92225	C	5/1/18	4/19/19	3/7/18	273	43	Appendix 9 - compressor components EF
439	92225	C	5/1/18	5/1/19	3/7/18	273	43	Appendix 9 - compressor components EF
441	92225	C	5/1/18	5/1/19	3/7/18	273	43	Appendix 9 - compressor components EF
442	92225	C	5/1/18	4/19/19	3/7/18	273	43	Appendix 9 - compressor components EF
755.04	92225	V	5/1/18	5/4/18	3/7/18	32	5	Appendix 9 - Non-compressor components EF
757.04	92225	V	5/1/18	8/3/18	3/7/18	123	19	Appendix 9 - Non-compressor components EF
760.04	92225	V	5/1/18	5/4/18	3/7/18	32	4	Appendix 9 - Non-compressor components EF
814.16	92225	V	5/1/18	5/4/18	3/26/18	22	3	Appendix 9 - Non-compressor components EF
814.15	92225	C	5/1/18	5/4/18	3/26/18	22	3	Appendix 9 - Non-compressor components EF
726	92225	V	5/2/18	PENDING	3/7/18	272	38	Appendix 9 - Non-compressor components EF
144.2	92225	V	5/2/18	5/2/18	3/19/18	23	3	Appendix 9 - Non-compressor components EF
746	92225	V	5/2/18	8/1/18	3/7/18	120	17	Appendix 9 - Non-compressor components EF
784.01	92225	C	5/2/18	5/4/18	3/7/18	31	4	Appendix 9 - Non-compressor components EF
444	92225	C	5/2/18	5/7/19	3/7/18	272	38	Appendix 9 - compressor components EF
430	92225	C	5/2/18	4/18/19	3/7/18	272	38	Appendix 9 - compressor components EF
445	92225	C	5/2/18	5/7/19	3/7/18	272	27	Appendix 9 - compressor components EF
446	92225	C	5/2/18	5/7/19	3/7/18	272	27	Appendix 9 - compressor components EF
448	92225	C	5/2/18	5/7/19	3/7/18	272	27	Appendix 9 - compressor components EF
449	92225	C	5/2/18	5/7/19	3/7/18	272	13	Appendix 9 - compressor components EF
452	92225	C	5/2/18	4/18/19	3/7/18	272	43	Appendix 9 - compressor components EF
453	92225	C	5/2/18	4/18/19	3/7/18	272	43	Appendix 9 - compressor components EF
455	92225	C	5/2/18	4/18/19	3/7/18	272	43	Appendix 9 - compressor components EF
456	92225	C	5/2/18	4/18/19	3/7/18	272	43	Appendix 9 - compressor components EF
431	92225	C	5/2/18	5/24/18	3/7/18	51	8	Appendix 9 - compressor components EF
432	92225	C	5/2/18	5/24/18	3/7/18	51	8	Appendix 9 - compressor components EF
434	92225	C	5/2/18	5/24/18	3/7/18	51	8	Appendix 9 - compressor components EF
443.06	92225	V	5/2/18	7/16/18	3/7/18	104	16	Appendix 9 - compressor components EF
740.06	92225	C	5/2/18	8/1/18	3/7/18	120	17	Appendix 9 - Non-compressor components EF
732	92225	V	5/2/18	8/1/18	3/7/18	120	17	Appendix 9 - Non-compressor components EF
724.19	92225	C	5/2/18	5/2/18	3/7/18	29	4	Appendix 9 - Non-compressor components EF
113.02	92225	C	5/3/18	5/16/18	3/7/18	43	6	Appendix 9 - Non-compressor components EF
393.03	92225	C	5/3/18	5/8/18	3/7/18	35	5	Appendix 9 - compressor components EF
409	92225	C	5/3/18	12/7/18	3/7/18	248	35	Appendix 9 - compressor components EF
408	92225	C	5/3/18	12/7/18	3/7/18	248	35	Appendix 9 - compressor components EF
393.09	92225	V	5/3/18	5/16/18	3/7/18	43	6	Appendix 9 - compressor components EF
114.2	92225	V	5/3/18	5/8/18	3/19/18	29	4	Appendix 9 - Non-compressor components EF
113.11	92225	C	5/3/18	5/16/18	3/19/18	37	5	Appendix 9 - Non-compressor components EF

383	92225	C	5/17/18	5/22/18	3/7/18	42	6	Appendix 9 - compressor components EF
384	92225	C	5/17/18	2/27/19	3/7/18	265	37	Appendix 9 - compressor components EF
385	92225	C	5/17/18	2/27/19	3/7/18	265	37	Appendix 9 - compressor components EF
386	92225	C	5/17/18	2/27/19	3/7/18	265	37	Appendix 9 - compressor components EF
379.04	92225	Other	5/17/18	5/22/18	3/7/18	42	6	Appendix 9 - Non-compressor components EF
1067.12	92225	C	5/17/18	5/22/18	3/6/18	42	4	Appendix 9 - Non-compressor components EF
1073.02	92225	C	5/17/18	5/22/18	3/6/18	42	4	Appendix 9 - Non-compressor components EF
387.04	92225	C	5/17/18	5/17/18	3/23/18	29	3	Appendix 9 - compressor components EF
1055.1	92225	C	5/17/18	5/22/18	3/23/18	34	3	Appendix 9 - Non-compressor components EF
1063	92225	V	5/17/18	5/22/18	3/6/18	42	7	Appendix 9 - Non-compressor components EF
385	92225	C	5/17/18	3/4/19	3/7/18	265	42	Appendix 9 - compressor components EF
386	92225	C	5/17/18	2/27/19	3/7/18	265	42	Appendix 9 - compressor components EF
389	92225	C	5/17/18	5/1/19	3/7/18	265	42	Appendix 9 - compressor components EF
390	92225	C	5/17/18	3/4/19	3/7/18	265	42	Appendix 9 - compressor components EF
391	92225	C	5/17/18	5/1/19	3/7/18	265	42	Appendix 9 - compressor components EF
383	92225	C	5/17/18	5/22/18	3/7/18	42	7	Appendix 9 - compressor components EF
384	92225	C	5/17/18	5/22/18	3/7/18	42	7	Appendix 9 - compressor components EF
385	92225	C	5/17/18	2/27/19	3/7/18	265	42	Appendix 9 - compressor components EF
386	92225	C	5/17/18	2/27/19	3/7/18	265	37	Appendix 9 - compressor components EF
502.12	92225	C	5/17/18	10/22/18	3/8/18	194	27	Appendix 9 - Non-compressor components EF
505	92225	V	5/17/18	2/14/19	3/8/18	264	37	Appendix 9 - Non-compressor components EF
506.12	92225	V	5/17/18	2/8/19	3/8/18	264	37	Appendix 9 - Non-compressor components EF
00122.03	92225	C	5/21/18	5/24/18	3/19/18	36	5	Appendix 9 - Non-compressor components EF
00982.05	92225	C	5/21/18	5/24/18	3/6/18	42	6	Appendix 9 - Non-compressor components EF
00982.06	92225	C	5/21/18	5/24/18	3/6/18	42	6	Appendix 9 - Non-compressor components EF
00982.12	92225	C	5/21/18	5/24/18	3/6/18	42	6	Appendix 9 - Non-compressor components EF
00988.09	92225	C	5/21/18	5/24/18	3/6/18	42	6	Appendix 9 - Non-compressor components EF
00988.20	92225	C	5/21/18	5/24/18	3/6/18	42	6	Appendix 9 - Non-compressor components EF
00982	92225	V	5/21/18	5/24/18	3/6/18	42	6	Appendix 9 - Non-compressor components EF
00982.10	92225	V	5/21/18	5/24/18	3/6/18	42	6	Appendix 9 - Non-compressor components EF
00982.03	92225	V	5/21/18	5/24/18	3/6/18	42	4	Appendix 9 - Non-compressor components EF
00696	92225	PR	5/21/18	8/1/18	3/23/18	103	10	Appendix 9 - Non-compressor components EF
00979	92225	PR	5/21/18	12/7/18	3/23/18	231	23	Appendix 9 - Non-compressor components EF
00130	92225	V	5/21/18	2/27/19	3/23/18	255	25	Appendix 9 - Non-compressor components EF
00134	92225	V	5/21/18	2/26/19	3/23/18	255	25	Appendix 9 - Non-compressor components EF
00989	92225	V	5/21/18	1/29/20	3/23/18	255	25	Appendix 9 - Non-compressor components EF
00982.02	92225	C	5/21/18	5/24/18	3/6/18	42	4	Appendix 9 - Non-compressor components EF
00988.07	92225	C	5/21/18	5/24/18	3/6/18	42	4	Appendix 9 - Non-compressor components EF
00982.11	92225	C	5/21/18	5/24/18	3/6/18	42	4	Appendix 9 - Non-compressor components EF
00988.08	92225	C	5/21/18	5/24/18	3/6/18	42	4	Appendix 9 - Non-compressor components EF
00988.19	92225	C	5/21/18	5/24/18	3/6/18	42	4	Appendix 9 - Non-compressor components EF

01015.05	92225	V	5/22/18	11/12/19	3/6/18	263	26	Appendix 9 - Non-compressor components EF
00705	92225	V	5/22/18	5/24/18	3/7/18	41	6	Appendix 9 - Non-compressor components EF
01008	92225	V	5/22/18	PENDING	3/23/18	254	40	Appendix 9 - Non-compressor components EF
01022	92225	V	5/22/18	PENDING	3/23/18	254	40	Appendix 9 - Non-compressor components EF
00702.12	92225	C	5/22/18	5/24/18	3/7/18	41	6	Appendix 9 - Non-compressor components EF
01029.23	92225	V	5/22/18	5/24/18	3/6/18	42	7	Appendix 9 - Non-compressor components EF
01042.15	92225	V	5/22/18	5/24/18	3/6/18	42	6	Appendix 9 - Non-compressor components EF
00715.08	92225	C	5/22/18	5/24/18	3/7/18	41	6	Appendix 9 - Non-compressor components EF
00720.11	92225	C	5/22/18	5/24/18	3/7/18	41	6	Appendix 9 - Non-compressor components EF
01030.08	92225	C	5/22/18	5/24/18	3/6/18	42	6	Appendix 9 - Non-compressor components EF
00720.10	92225	C	5/22/18	5/24/18	3/7/18	41	6	Appendix 9 - Non-compressor components EF
01039.09	92225	C	5/22/18	8/1/18	3/6/18	111	15	Appendix 9 - Non-compressor components EF
01019.02	92225	C	5/22/18	5/24/18	3/6/18	42	6	Appendix 9 - Non-compressor components EF
211.07	92225	C	7/16/18	7/20/18	5/3/18	42	6	Appendix 9 - Non-compressor components EF
465.06	92225	C	7/17/18	7/20/18	5/2/18	42	6	Appendix 9 - Non-compressor components EF
503.08	92225	V	7/18/18	7/20/18	5/2/18	42	4	Appendix 9 - Non-compressor components EF
505.02	92225	Other	7/18/18	7/20/18	5/2/18	42	4	Appendix 9 - Non-compressor components EF
504.02	92225	Other	7/18/18	7/20/18	5/2/18	42	7	Appendix 9 - Non-compressor components EF
505.08	92225	Other	7/18/18	7/20/18	5/2/18	42	7	Appendix 9 - Non-compressor components EF
503.1	92225	C	7/18/18	7/20/18	5/2/18	42	6	Appendix 9 - Non-compressor components EF
495.05	92225	C	7/18/18	7/20/18	5/2/18	42	6	Appendix 9 - Non-compressor components EF
420	92225	C	7/30/18	8/1/18	5/3/18	47	7	Appendix 9 - compressor components EF
423	92225	C	7/30/18	8/1/18	5/3/18	47	7	Appendix 9 - compressor components EF
422	92225	C	7/30/18	8/1/18	5/3/18	47	7	Appendix 9 - compressor components EF
424	92225	C	7/30/18	8/1/18	5/3/18	47	5	Appendix 9 - compressor components EF
419	92225	C	7/30/18	8/1/18	5/3/18	47	5	Appendix 9 - compressor components EF
418	92225	C	7/30/18	8/1/18	5/3/18	47	5	Appendix 9 - compressor components EF
404	92225	PR	7/30/18	8/3/18	5/3/18	49	5	Appendix 9 - compressor components EF
785.08	92225	C	7/30/18	8/3/18	5/1/18	50	7	Appendix 9 - Non-compressor components EF
567.2	92225	C	7/31/18	8/1/18	5/3/18	47	7	Appendix 9 - Non-compressor components EF
755.03	92225	C	7/31/18	8/3/18	5/1/18	50	7	Appendix 9 - Non-compressor components EF
759.07	92225	C	7/31/18	8/3/18	5/1/18	50	7	Appendix 9 - Non-compressor components EF
742	92225	V	8/2/18	8/3/18	5/21/18	39	5	Appendix 9 - Non-compressor components EF
734	92225	V	8/2/18	8/3/18	5/21/18	39	5	Appendix 9 - Non-compressor components EF
103.09	92225	Other	8/2/18	8/16/18	5/17/18	54	7	Appendix 9 - Non-compressor components EF
1041.29	92225	V	8/13/18	8/16/18	5/22/18	46	6	Appendix 9 - Non-compressor components EF
1041	92225	V	8/13/18	8/16/18	5/22/18	46	6	Appendix 9 - Non-compressor components EF
706	92225	V	8/13/18	8/16/18	5/21/18	46	6	Appendix 9 - Non-compressor components EF
708.02	92225	C	8/13/18	8/16/18	5/21/18	46	6	Appendix 9 - Non-compressor components EF
253	92225	V	10/24/18	PENDING	7/16/18	119	16	Appendix 9 - Non-compressor components EF
749.13	92225	V	11/5/18	10/17/19	7/31/18	106	14	Appendix 9 - Non-compressor components EF

762.1	92225	V	11/5/18	11/6/18	7/31/18	51	7	Appendix 9 - Non-compressor components EF
787	92225	V	11/5/18	11/6/18	7/31/18	51	7	Appendix 9 - Non-compressor components EF
785.04	92225	V	11/5/18	11/6/18	7/31/18	51	7	Appendix 9 - Non-compressor components EF
785.1	92225	V	11/5/18	11/6/18	7/31/18	51	7	Appendix 9 - Non-compressor components EF
857.1	92225	V	11/5/18	11/6/18	8/13/18	44	6	Appendix 9 - Non-compressor components EF
972.0	92225	V	11/7/18	11/8/18	8/13/18	45	4	Appendix 9 - Non-compressor components EF
1015	92225	V	11/8/18	2/24/20	8/13/18	98	10	Appendix 9 - Non-compressor components EF
696	92225	PR	11/8/18	11/12/19	7/31/18	104	10	Appendix 9 - Non-compressor components EF
01601.08	92301	O	2/26/18	2/27/18	9/22/17	81	22	Appendix 9 - Non-compressor components EF
01601.07	92301	O	2/26/18	2/26/18	9/22/17	80	22	Appendix 9 - Non-compressor components EF
01348.05	92301	O	2/26/18	2/27/18	9/22/17	81	22	Appendix 9 - Non-compressor components EF
01348.17	92301	O	2/26/18	2/27/18	9/22/17	81	22	Appendix 9 - Non-compressor components EF
01356.06	92301	O	2/26/18	2/26/18	9/22/17	80	22	Appendix 9 - Non-compressor components EF
01356.11	92301	O	2/26/18	2/26/18	9/22/17	80	22	Appendix 9 - Non-compressor components EF
01613.25	92301	O	2/27/18	2/27/18	9/22/17	80	22	Appendix 9 - Non-compressor components EF
01615.37	92301	O	2/27/18	2/27/18	9/22/17	80	22	Appendix 9 - Non-compressor components EF
01617.08	92301	O	2/27/18	2/27/18	9/22/17	80	22	Appendix 9 - Non-compressor components EF
01617.22	92301	O	2/27/18	2/27/18	9/22/17	80	22	Appendix 9 - Non-compressor components EF
01609.03	92301	O	2/27/18	2/27/18	9/22/17	80	22	Appendix 9 - Non-compressor components EF
01609.04	92301	O	2/27/18	2/27/18	9/22/17	80	22	Appendix 9 - Non-compressor components EF
01360.08	92301	O	2/27/18	2/27/18	9/22/17	80	22	Appendix 9 - Non-compressor components EF
01618.24	92301	O	2/27/18	2/27/18	9/22/17	80	22	Appendix 9 - Non-compressor components EF
01618.27	92301	O	2/27/18	2/27/18	9/22/17	80	22	Appendix 9 - Non-compressor components EF
0896	92301	V	2/26/18	4/26/19	9/22/17	388	38	Appendix 9 - Non-compressor components EF
01901.12	92301	V	2/26/18	4/26/19	9/22/17	388	38	Appendix 9 - Non-compressor components EF
01605.05	92301	Other	2/26/18	2/28/18	9/22/17	82	8	Appendix 9 - Non-compressor components EF
01605.16	92301	Other	2/26/18	2/26/18	9/22/17	80	8	Appendix 9 - Non-compressor components EF
01346.16	92301	Other	2/26/18	2/26/18	9/22/17	80	8	Appendix 9 - Non-compressor components EF
01615.27	92301	Other	2/27/18	2/28/18	9/22/17	81	8	Appendix 9 - Non-compressor components EF
01605.05	92301	Other	4/25/18	4/26/18	2/27/18	31	3	Appendix 9 - Non-compressor components EF
01342	92301	Other	4/25/18	4/26/18	2/27/18	31	3	Appendix 9 - Non-compressor components EF
01605.05	92301	Other	8/9/18	8/17/18	4/25/18	62	6	Appendix 9 - Non-compressor components EF
01904	92301	Relief	2/26/18	12/31/18	9/22/17	388	19	Appendix 9 - Non-compressor components EF
01901	92301	Relief	2/26/18	12/31/18	9/22/17	388	19	Appendix 9 - Non-compressor components EF
01604	92301	Relief	2/26/18	12/31/18	9/22/17	388	19	Appendix 9 - Non-compressor components EF
01611	92301	Relief	2/27/18	12/31/18	9/22/17	387	19	Appendix 9 - Non-compressor components EF
01904	92301	Relief	8/8/18	8/8/18	4/25/18	54	3	Appendix 9 - Non-compressor components EF
1343.07	92301	V	2/26/18	2/26/18	9/22/17	80	4	Appendix 9 - Non-compressor components EF
01904.21	92301	V	2/26/18	2/27/18	9/22/17	81	13	Appendix 9 - Non-compressor components EF
01903.21	92301	V	2/26/18	2/27/18	9/22/17	81	13	Appendix 9 - Non-compressor components EF
01902	92301	V	2/26/18	12/31/18	9/22/17	388	61	Appendix 9 - Non-compressor components EF

01901.15	92301	V	2/26/18	2/27/18	9/22/17	81	13	Appendix 9 - Non-compressor components EF
01901.07	92301	V	2/26/18	2/27/18	9/22/17	81	13	Appendix 9 - Non-compressor components EF
01901.24	92301	V	2/26/18	2/28/18	9/22/17	82	13	Appendix 9 - Non-compressor components EF
01900.11	92301	V	2/26/18	2/28/18	9/22/17	82	13	Appendix 9 - Non-compressor components EF
01901.08	92301	V	2/26/18	2/26/18	9/22/17	80	12	Appendix 9 - Non-compressor components EF
01604.14	92301	V	2/26/18	2/28/18	9/22/17	82	13	Appendix 9 - Non-compressor components EF
01604.20	92301	V	2/26/18	12/31/18	9/22/17	388	61	Appendix 9 - Non-compressor components EF
01599	92301	V	2/26/18	2/28/18	9/22/17	82	13	Appendix 9 - Non-compressor components EF
01601	92301	V	2/26/18	2/28/18	9/22/17	82	13	Appendix 9 - Non-compressor components EF
01348.20	92301	V	2/26/18	2/28/18	9/22/17	82	13	Appendix 9 - Non-compressor components EF
01611.03	92301	V	2/27/18	3/5/18	9/22/17	86	14	Appendix 9 - Non-compressor components EF
01611.06	92301	V	2/27/18	12/31/18	9/22/17	387	61	Appendix 9 - Non-compressor components EF
01615.26	92301	V	2/27/18	2/27/18	9/22/17	80	13	Appendix 9 - Non-compressor components EF
01615.39	92301	V	2/27/18	12/31/18	9/22/17	387	61	Appendix 9 - Non-compressor components EF
01615.40	92301	V	2/27/18	12/31/18	9/22/17	387	61	Appendix 9 - Non-compressor components EF
01619.12	92301	V	2/27/18	2/28/18	9/22/17	81	13	Appendix 9 - Non-compressor components EF
01618.22	92301	V	2/27/18	2/28/17	9/22/17	(284)	(45)	Appendix 9 - Non-compressor components EF
01900	92301	V	4/25/18	4/26/18	2/27/18	31	5	Appendix 9 - Non-compressor components EF
01615.18	92301	V	4/25/18	4/26/18	2/27/18	31	5	Appendix 9 - Non-compressor components EF
01615.21	92301	V	4/25/18	4/26/18	2/27/18	31	5	Appendix 9 - Non-compressor components EF
01617.21	92301	V	4/25/18	4/26/18	2/27/18	31	5	Appendix 9 - Non-compressor components EF
01343.03	92301	V	8/7/18	8/8/18	4/25/18	54	8	Appendix 9 - Non-compressor components EF
01900	92301	V	8/8/18	12/31/18	4/25/18	199	31	Appendix 9 - Non-compressor components EF
01896.20	92301	C	2/26/18	2/28/18	9/22/17	82	11	Appendix 9 - Non-compressor components EF
01905.10	92301	C	2/26/18	2/27/18	9/22/17	81	11	Appendix 9 - Non-compressor components EF
01903.24	92301	C	2/26/18	2/28/18	9/22/17	82	11	Appendix 9 - Non-compressor components EF
01903.22	92301	C	2/26/18	2/26/18	9/22/17	80	11	Appendix 9 - Non-compressor components EF
01903.20	92301	C	2/26/18	2/28/18	9/22/17	82	11	Appendix 9 - Non-compressor components EF
01901.16	92301	C	2/26/18	2/26/18	9/22/17	80	11	Appendix 9 - Non-compressor components EF
01901.14	92301	C	2/26/18	2/27/18	9/22/17	81	11	Appendix 9 - Non-compressor components EF
01604.05	92301	C	2/26/18	2/26/18	9/22/17	80	11	Appendix 9 - Non-compressor components EF
01604.10	92301	C	2/26/18	2/28/18	9/22/17	82	11	Appendix 9 - Non-compressor components EF
01604.12	92301	C	2/26/18	2/28/18	9/22/17	82	11	Appendix 9 - Non-compressor components EF
01605.10	92301	C	2/26/18	2/28/18	9/22/17	82	11	Appendix 9 - Non-compressor components EF
01604.15	92301	C	2/26/18	2/26/18	9/22/17	80	11	Appendix 9 - Non-compressor components EF
01342.02	92301	C	2/26/18	2/26/18	9/22/17	80	11	Appendix 9 - Non-compressor components EF
01345.20	92301	C	2/26/18	2/26/18	9/22/17	80	11	Appendix 9 - Non-compressor components EF
01348.21	92301	C	2/26/18	2/28/18	9/22/17	82	11	Appendix 9 - Non-compressor components EF
01348.18	92301	C	2/26/18	2/27/18	9/22/17	81	11	Appendix 9 - Non-compressor components EF
01355.12	92301	C	2/26/18	2/26/18	9/22/17	80	11	Appendix 9 - Non-compressor components EF
01361.06	92301	C	2/26/18	2/26/18	9/22/17	80	11	Appendix 9 - Non-compressor components EF

01611.13	92301	C	2/27/18	2/28/18	9/22/17	81	11	Appendix 9 - Non-compressor components EF
01615.22	92301	C	2/27/18	2/28/18	9/22/17	81	11	Appendix 9 - Non-compressor components EF
01615.29	92301	C	2/27/18	2/28/18	9/22/17	81	11	Appendix 9 - Non-compressor components EF
01619.11	92301	C	2/27/18	12/31/18	9/22/17	387	54	Appendix 9 - Non-compressor components EF
01619.18	92301	C	2/27/18	2/28/18	9/22/17	81	11	Appendix 9 - Non-compressor components EF
01622.04	92301	C	2/27/18	2/27/18	9/22/17	80	11	Appendix 9 - Non-compressor components EF
01903.20	92301	C	4/25/18	4/26/18	2/27/18	31	4	Appendix 9 - Non-compressor components EF
01896.08	92301	C	4/25/18	4/26/18	2/27/18	31	4	Appendix 9 - Non-compressor components EF
01896.11	92301	C	4/25/18	4/26/18	2/27/18	31	4	Appendix 9 - Non-compressor components EF
01612.26	92301	C	4/25/18	4/26/18	2/27/18	31	4	Appendix 9 - Non-compressor components EF
01355.12	92301	C	4/25/18	4/26/18	2/27/18	31	4	Appendix 9 - Non-compressor components EF
01355.13	92301	C	4/26/18	4/26/18	2/27/18	30	4	Appendix 9 - Non-compressor components EF
01900.06	92301	C	8/7/18	8/7/18	4/25/18	53	7	Appendix 9 - Non-compressor components EF
01345.02	92301	C	11/3/18	11/14/18	8/8/18	56	8	Appendix 9 - Non-compressor components EF
01345.04	92301	C	11/3/18	11/14/18	8/8/18	56	8	Appendix 9 - Non-compressor components EF
01367.26	92301	C	11/14/18	11/15/18	8/8/18	51	7	Appendix 9 - Non-compressor components EF
01622.04	92301	C	11/14/18	11/15/18	8/8/18	51	7	Appendix 9 - Non-compressor components EF
1231.19	92351	C	2/8/18	2/9/18	9/15/17	75	10	Appendix 9 - Non-compressor components EF
1208.09	92351	C	2/8/18	2/9/18	9/15/17	75	10	Appendix 9 - Non-compressor components EF
1208.27	92351	C	2/8/18	2/9/18	9/15/17	75	10	Appendix 9 - Non-compressor components EF
1231.16	92351	C	2/8/18	2/9/18	9/15/17	75	10	Appendix 9 - Non-compressor components EF
1231.17	92351	C	2/8/18	2/9/18	9/15/17	75	10	Appendix 9 - Non-compressor components EF
1210.06	92351	C	2/8/18	2/9/18	9/15/17	75	10	Appendix 9 - Non-compressor components EF
1210.09	92351	C	2/8/18	2/9/18	9/15/17	75	10	Appendix 9 - Non-compressor components EF
1210.1	92351	C	2/8/18	2/9/18	9/15/17	75	10	Appendix 9 - Non-compressor components EF
1210.15	92351	C	2/8/18	2/9/18	9/15/17	75	10	Appendix 9 - Non-compressor components EF
1210.19	92351	C	2/8/18	2/9/18	9/15/17	75	10	Appendix 9 - Non-compressor components EF
1210.23	92351	C	2/8/18	2/9/18	9/15/17	75	10	Appendix 9 - Non-compressor components EF
1231.2	92351	C	2/8/18	2/9/18	9/15/17	75	10	Appendix 9 - Non-compressor components EF
1235.23	92351	C	2/8/18	2/9/18	9/15/17	75	10	Appendix 9 - Non-compressor components EF
1235.24	92351	C	2/8/18	2/9/18	9/15/17	75	10	Appendix 9 - Non-compressor components EF
1235.3	92351	C	2/8/18	2/9/18	9/15/17	75	10	Appendix 9 - Non-compressor components EF
1208.02	92351	C	2/8/18	4/13/18	9/15/17	138	19	Appendix 9 - Non-compressor components EF
1210.24	92351	C	2/8/18	2/9/18	9/15/17	75	10	Appendix 9 - Non-compressor components EF
1210.31	92351	C	2/8/18	2/9/18	9/15/17	75	10	Appendix 9 - Non-compressor components EF
1205.08	92351	C	2/8/18	2/12/18	9/15/17	78	11	Appendix 9 - Non-compressor components EF
1237.23	92351	V	2/8/18	2/9/18	9/15/17	75	10	Appendix 9 - Non-compressor components EF
1231.14	92351	V	2/8/18	2/9/18	9/15/17	75	10	Appendix 9 - Non-compressor components EF
1235.16	92351	V	2/8/18	2/9/18	9/15/17	75	10	Appendix 9 - Non-compressor components EF
1235.21	92351	V	2/8/18	2/9/18	9/15/17	75	10	Appendix 9 - Non-compressor components EF
1235.32	92351	V	2/8/18	2/9/18	9/15/17	75	10	Appendix 9 - Non-compressor components EF

1234	92351	V	2/8/18	2/9/18	9/15/17	75	10	Appendix 9 - Non-compressor components EF
1237	92351	V	2/8/18	2/9/18	9/15/17	75	10	Appendix 9 - Non-compressor components EF
1197	92351	V	2/8/18	2/12/18	9/15/17	78	11	Appendix 9 - Non-compressor components EF
1210	92351	V	2/8/18	4/13/18	9/15/17	138	19	Appendix 9 - Non-compressor components EF
1239.06	92351	V	2/8/18	2/8/18	9/15/17	74	10	Appendix 9 - Non-compressor components EF
1233.02	92351	C	5/10/18	5/12/18	2/8/18	49	7	Appendix 9 - Non-compressor components EF
1235.39	92351	C	5/10/18	5/10/18	2/8/18	47	7	Appendix 9 - Non-compressor components EF
1244.07	92351	C	5/10/18	5/10/18	2/8/18	47	7	Appendix 9 - Non-compressor components EF
1244.06	92351	Other	5/10/18	5/10/18	2/8/18	47	7	Appendix 9 - Non-compressor components EF
1806	92351	PR	5/10/18	5/18/18	2/8/18	55	8	Appendix 9 - Non-compressor components EF
1209.16	92351	V	5/10/18	5/10/18	2/8/18	47	7	Appendix 9 - Non-compressor components EF
1210	92351	V	5/10/18	5/18/18	4/13/18	23	3	Appendix 9 - Non-compressor components EF
1232	92351	V	5/10/18	5/10/18	2/8/18	47	7	Appendix 9 - Non-compressor components EF
1235.26	92351	V	5/10/18	5/10/18	2/8/18	47	5	Appendix 9 - Non-compressor components EF
1237	92351	V	5/10/18	5/10/18	2/8/18	47	5	Appendix 9 - Non-compressor components EF
01210.37	92351	C	7/12/18	7/13/2018	5/10/18	205	20	Appendix 9 - Non-compressor components EF
01210.39	92351	C	7/12/18	7/13/18	5/10/18	205	20	Appendix 9 - Non-compressor components EF
01235.24	92351	C	7/12/18	7/12/18	5/10/18	205	10	Appendix 9 - Non-compressor components EF
01806	92351	PR	9/10/18	PENDING	7/12/18	143	7	Appendix 9 - Non-compressor components EF
01221	92351	PR	9/12/18	9/13/18	7/12/18	142	7	Appendix 9 - Non-compressor components EF
1235.24	92351	C	10/17/18	10/17/18	9/10/18	20	3	Appendix 9 - Non-compressor components EF
1244.06	92351	Other	10/17/18	10/17/18	9/10/18	20	3	Appendix 9 - Non-compressor components EF
828.24	92363	C	2/6/18	2/7/18	9/13/17	75	21	Appendix 9 - Non-compressor components EF
828.25	92363	C	2/6/18	2/7/18	9/13/17	75	7	Appendix 9 - Non-compressor components EF
828.27	92363	C	2/6/18	2/7/18	9/13/17	75	7	Appendix 9 - Non-compressor components EF
1100.04	92363	C	2/6/18	2/7/18	9/13/17	75	7	Appendix 9 - Non-compressor components EF
1094.25	92363	PR	2/6/18	2/6/18	9/13/17	74	7	Appendix 9 - Non-compressor components EF
1083	92363	V	2/6/18	2/7/18	9/13/17	75	7	Appendix 9 - Non-compressor components EF
1094.12	92363	V	2/6/18	2/6/18	9/13/17	74	7	Appendix 9 - Non-compressor components EF
1097	92363	V	2/6/18	2/10/18	9/13/17	78	8	Appendix 9 - Non-compressor components EF
1100	92363	V	2/6/18	2/7/18	9/13/17	75	7	Appendix 9 - Non-compressor components EF
1105	92363	V	2/6/18	2/7/18	9/13/17	75	7	Appendix 9 - Non-compressor components EF
544.1	92363	C	2/7/18	2/7/18	9/13/17	75	7	Appendix 9 - Non-compressor components EF
1081.06	92363	C	2/7/18	2/10/18	9/13/17	78	8	Appendix 9 - Non-compressor components EF
1082.06	92363	C	2/7/18	2/21/18	9/13/17	89	9	Appendix 9 - Non-compressor components EF
1082.09	92363	C	2/7/18	2/12/18	9/13/17	80	8	Appendix 9 - Non-compressor components EF
1082.12	92363	C	2/7/18	2/10/18	9/13/17	78	11	Appendix 9 - Non-compressor components EF
1082.14	92363	C	2/7/18	2/10/18	9/13/17	78	11	Appendix 9 - Non-compressor components EF
1082.2	92363	C	2/7/18	2/12/18	9/13/17	80	11	Appendix 9 - Non-compressor components EF
1105.13	92363	C	2/7/18	2/10/18	9/13/17	78	11	Appendix 9 - Non-compressor components EF
834.07	92363	Other	2/7/18	5/11/18	9/13/17	168	8	Appendix 9 - Non-compressor components EF

542	92363	V	2/7/18	2/10/18	9/13/17	78	4	Appendix 9 - Non-compressor components EF
844	92363	V	2/7/18	5/11/18	9/13/17	168	8	Appendix 9 - Non-compressor components EF
1082.1	92363	V	2/7/18	2/10/18	9/13/17	78	4	Appendix 9 - Non-compressor components EF
1082.13	92363	V	2/7/18	2/10/18	9/13/17	78	4	Appendix 9 - Non-compressor components EF
1093	92363	V	2/7/18	6/26/18	9/13/17	214	11	Appendix 9 - Non-compressor components EF
1095.3	92363	V	2/7/18	2/7/18	9/13/17	75	4	Appendix 9 - Non-compressor components EF
1094.2	92363	C	5/7/18	5/7/18	2/6/18	46	7	Appendix 9 - Non-compressor components EF
1094.3	92363	C	5/7/18	5/7/18	2/6/18	46	7	Appendix 9 - Non-compressor components EF
1094	92363	PR	5/7/18	5/9/17	2/6/18	(317)	(50)	Appendix 9 - Non-compressor components EF
1082.16	92363	C	5/8/18	5/11/18	2/6/18	50	8	Appendix 9 - Non-compressor components EF
1082.23	92363	C	5/8/18	5/11/18	2/6/18	50	8	Appendix 9 - Non-compressor components EF
1083.06	92363	C	5/8/18	5/11/18	2/6/18	50	8	Appendix 9 - Non-compressor components EF
1096.03	92363	C	5/8/18	5/11/18	2/6/18	50	8	Appendix 9 - Non-compressor components EF
1082	92363	PR	5/8/18	5/11/18	2/6/18	50	8	Appendix 9 - Non-compressor components EF
1083	92363	PR	5/8/18	5/9/18	2/6/18	48	7	Appendix 9 - Non-compressor components EF
1091	92363	PR	5/8/18	5/11/18	2/6/18	50	8	Appendix 9 - Non-compressor components EF
1098	92363	PR	5/8/18	5/21/18	2/7/18	59	9	Appendix 9 - Non-compressor components EF
834.06	92363	V	5/8/18	5/11/18	2/7/18	49	8	Appendix 9 - Non-compressor components EF
838.22	92363	V	5/8/18	5/13/18	2/7/18	51	8	Appendix 9 - Non-compressor components EF
1085.13	92363	V	5/8/18	5/23/18	2/7/18	61	10	Appendix 9 - Non-compressor components EF
1095.06	92363	V	5/8/18	5/11/18	2/7/18	49	8	Appendix 9 - Non-compressor components EF
1095.2	92363	V	5/8/18	5/11/18	2/7/18	49	8	Appendix 9 - Non-compressor components EF
1096	92363	V	5/8/18	5/21/18	2/7/18	59	9	Appendix 9 - Non-compressor components EF
1099.36	92363	V	5/8/18	5/11/18	2/7/18	49	8	Appendix 9 - Non-compressor components EF
1100.09	92363	V	5/8/18	5/11/18	2/7/18	49	8	Appendix 9 - Non-compressor components EF
267.04	92363	V	5/9/18	5/23/18	2/7/18	61	10	Appendix 9 - Non-compressor components EF
834.06	92363	Other	7/10/18	7/10/18	5/7/18	33	5	Appendix 9 - Non-compressor components EF
207.01	92363	C	7/11/18	7/13/18	5/7/18	36	6	Appendix 9 - Non-compressor components EF
831.22	92363	C	9/11/18	9/13/18	5/8/18	66	10	Appendix 9 - Non-compressor components EF
831.25	92363	C	9/11/18	9/13/18	5/8/18	66	10	Appendix 9 - Non-compressor components EF
514.14	92363	C	10/15/18	10/15/18	7/10/18	50	8	Appendix 9 - Non-compressor components EF
542.02	92363	C	10/15/18	10/15/18	7/11/18	49	8	Appendix 9 - Non-compressor components EF
581.23	92363	C	2/6/18	2/6/18	9/13/17	74	12	Appendix 9 - Non-compressor components EF
1515.03	92363	V	2/6/18	2/6/18	9/13/17	74	12	Appendix 9 - Non-compressor components EF
00570.08	92363	C	5/7/2018	5/8/2018	2/6/18	284	45	Appendix 9 - Non-compressor components EF
00572.13	92363	C	5/7/2018	5/8/2018	2/6/18	284	45	Appendix 9 - Non-compressor components EF
00573.14	92363	C	5/7/2018	5/8/2018	2/6/18	284	45	Appendix 9 - Non-compressor components EF
00575.04	92363	C	5/7/2018	5/8/2018	2/6/18	284	45	Appendix 9 - Non-compressor components EF
00575.13	92363	C	5/7/2018	5/8/2018	2/6/18	284	45	Appendix 9 - Non-compressor components EF
00576.04	92363	C	5/7/2018	5/8/2018	2/6/18	284	45	Appendix 9 - Non-compressor components EF
01515.13	92363	C	5/7/2018	5/8/2018	2/6/18	284	45	Appendix 9 - Non-compressor components EF

00576	92363	V	5/7/2018	5/7/2018	2/6/18	284	45	Appendix 9 - Non-compressor components EF
13146.01	92363	C	8/14/18	8/15/18	5/8/18	51	8	Appendix 9 - Non-compressor components EF
13146.03	92363	C	8/14/18	8/15/18	5/8/18	51	8	Appendix 9 - Non-compressor components EF
865.01	92363	C	8/14/18	8/16/18	5/8/18	52	8	Appendix 9 - Non-compressor components EF
865.02	92363	C	8/14/18	8/16/18	5/8/18	52	7	Appendix 9 - Non-compressor components EF
13147	92363	C	8/14/18	8/15/18	5/8/18	51	7	Appendix 9 - Non-compressor components EF
875.28	92363	V	8/14/18	8/15/18	5/8/18	51	7	Appendix 9 - Non-compressor components EF
889	92363	V	8/14/18	8/15/18	5/8/18	51	7	Appendix 9 - Non-compressor components EF
900	92363	V	8/14/18	8/15/18	5/8/18	51	7	Appendix 9 - Non-compressor components EF
1118	92363	V	8/14/18	8/15/18	5/8/18	51	7	Appendix 9 - Non-compressor components EF
1123	92363	V	8/14/18	8/15/18	5/8/18	51	7	Appendix 9 - Non-compressor components EF
1124	92363	V	8/14/18	8/15/18	5/8/18	51	7	Appendix 9 - Non-compressor components EF
13144	92363	V	8/14/18	8/15/18	5/8/18	51	7	Appendix 9 - Non-compressor components EF
1182	92363	V	8/15/18	8/15/18	5/8/18	51	7	Appendix 9 - Non-compressor components EF
1192	92363	V	8/15/18	8/16/18	5/8/18	52	7	Appendix 9 - Non-compressor components EF
1511.1	92363	V	8/15/18	8/16/18	5/8/18	52	7	Appendix 9 - Non-compressor components EF
1118.2	92363	C	9/12/18	9/13/18	5/8/18	66	9	Appendix 9 - Non-compressor components EF
1118.28	92363	C	9/12/18	9/13/18	5/8/18	66	9	Appendix 9 - Non-compressor components EF
1124	92363	V	9/12/18	9/13/18	5/8/18	66	9	Appendix 9 - Non-compressor components EF
897.01	92363	C	9/18/18	9/18/18	5/8/18	68	9	Appendix 9 - Non-compressor components EF
1168	92363	Other	9/18/18	9/19/18	5/8/18	69	10	Appendix 9 - Non-compressor components EF
1169	92363	Other	9/18/18	9/19/18	5/8/18	69	10	Appendix 9 - Non-compressor components EF
1171	92363	Other	9/18/18	9/19/18	5/8/18	69	10	Appendix 9 - Non-compressor components EF
1176	92363	Other	9/18/18	9/18/18	5/8/18	68	9	Appendix 9 - Non-compressor components EF
1178	92363	Other	9/18/18	9/18/18	5/8/18	68	9	Appendix 9 - Non-compressor components EF
896	92363	V	9/18/18	PENDING	5/8/18	172	24	Appendix 9 - Non-compressor components EF
1503	92363	V	9/18/18	9/18/18	5/8/18	68	9	Appendix 9 - Non-compressor components EF
1505	92363	V	9/18/18	9/18/18	5/8/18	68	9	Appendix 9 - Non-compressor components EF
1718	92363	V	10/16/18	10/16/18	8/15/18	32	4	Appendix 9 - Non-compressor components EF
577.17	92363	V	10/16/18	10/16/18	8/15/18	32	4	Appendix 9 - Non-compressor components EF
1108.13	92363	V	10/16/18	10/16/18	8/15/18	32	4	Appendix 9 - Non-compressor components EF
1112	92363	V	10/16/18	10/16/18	8/15/18	32	4	Appendix 9 - Non-compressor components EF
1111	92363	V	10/16/18	10/16/18	8/15/18	32	4	Appendix 9 - Non-compressor components EF
1111.1	92363	V	10/16/18	10/16/18	8/15/18	32	4	Appendix 9 - Non-compressor components EF
1109	92363	V	10/16/18	10/16/18	8/15/18	32	4	Appendix 9 - Non-compressor components EF
1109.15	92363	V	10/16/18	10/16/18	8/15/18	32	4	Appendix 9 - Non-compressor components EF
1109.09	92363	V	10/16/18	10/18/18	8/15/18	34	5	Appendix 9 - Non-compressor components EF
1110	92363	V	10/16/18	10/18/18	8/15/18	34	5	Appendix 9 - Non-compressor components EF
6867301	92365	V	11/14/18	11/16/18	9/1/18	40	6	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.

01265.05	92365	Other	2/13/18	2/13/18	9/20/17	74	7	Appendix 9 - Non-compressor components EF
01314.15	92365	Other	4/24/18	4/24/18	2/13/18	36	4	Appendix 9 - Non-compressor components EF
01312.05	92365	Other	7/25/18	7/25/18	4/24/18	47	5	Appendix 9 - Non-compressor components EF
01287.01	92365	Flange	7/24/18	8/6/18	4/24/18	60	8	Appendix 9 - Non-compressor components EF
02160.01	92365	Flange	7/25/18	7/25/18	4/24/18	47	7	Appendix 9 - Non-compressor components EF
01519	92365	Relief	2/13/18	4/23/18	9/20/17	143	7	Appendix 9 - Non-compressor components EF
01261	92365	Relief	2/13/18	4/23/18	9/20/17	143	7	Appendix 9 - Non-compressor components EF
01288	92365	Relief	2/14/18	12/31/18	9/20/17	395	19	Appendix 9 - Non-compressor components EF
01521	92365	Relief	2/15/18	4/23/18	9/20/17	142	7	Appendix 9 - Non-compressor components EF
01252	92365	Relief	7/24/18	8/6/18	4/24/18	60	3	Appendix 9 - Non-compressor components EF
01256	92365	Relief	7/24/18	7/24/18	4/24/18	47	2	Appendix 9 - Non-compressor components EF
01593.07	92365	V	2/14/18	2/14/18	9/20/17	75	12	Appendix 9 - Non-compressor components EF
01825.07	92365	V	2/14/18	2/14/18	9/20/17	75	12	Appendix 9 - Non-compressor components EF
01522	92365	V	2/13/18	12/31/18	9/20/17	395	62	Appendix 9 - Non-compressor components EF
01529.03	92365	V	2/13/18	4/23/18	9/20/17	143	22	Appendix 9 - Non-compressor components EF
01253.11	92365	V	2/13/18	2/16/18	9/20/17	77	12	Appendix 9 - Non-compressor components EF
01253	92365	V	2/13/18	2/16/18	9/20/17	77	12	Appendix 9 - Non-compressor components EF
01255	92365	V	2/13/18	2/15/18	9/20/17	76	12	Appendix 9 - Non-compressor components EF
01286	92365	V	2/14/18	2/16/18	9/20/17	77	12	Appendix 9 - Non-compressor components EF
01282	92365	V	2/14/18	2/14/18	9/20/17	75	12	Appendix 9 - Non-compressor components EF
01318	92365	V	2/14/18	12/31/18	9/20/17	395	62	Appendix 9 - Non-compressor components EF
01319	92365	V	2/14/18	12/31/18	9/20/17	395	62	Appendix 9 - Non-compressor components EF
01321.02	92365	V	2/14/18	2/15/18	9/20/17	76	12	Appendix 9 - Non-compressor components EF
01323.02	92365	V	2/14/18	2/15/18	9/20/17	76	12	Appendix 9 - Non-compressor components EF
01598.05	92365	V	2/15/18	2/15/18	9/20/17	75	12	Appendix 9 - Non-compressor components EF
01598.13	92365	V	2/15/18	2/15/18	9/20/17	75	12	Appendix 9 - Non-compressor components EF
01594.08	92365	V	2/15/18	2/15/18	9/20/17	75	12	Appendix 9 - Non-compressor components EF
02160	92365	V	2/15/18	2/15/18	9/20/17	75	12	Appendix 9 - Non-compressor components EF
01516.03	92365	V	4/23/18	4/23/18	2/15/18	35	5	Appendix 9 - Non-compressor components EF
01517.03	92365	V	4/23/18	4/23/18	2/15/18	35	5	Appendix 9 - Non-compressor components EF
01536	92365	V	4/23/18	4/23/18	2/15/18	35	5	Appendix 9 - Non-compressor components EF
01249	92365	V	4/23/18	4/23/18	2/15/18	35	5	Appendix 9 - Non-compressor components EF
01251	92365	V	4/23/18	4/23/18	2/15/18	35	5	Appendix 9 - Non-compressor components EF
01252.06	92365	V	4/23/18	4/24/18	2/15/18	36	6	Appendix 9 - Non-compressor components EF
01250	92365	V	4/23/18	4/23/18	2/15/18	35	5	Appendix 9 - Non-compressor components EF
01249.05	92365	V	4/23/18	4/23/18	2/15/18	35	5	Appendix 9 - Non-compressor components EF
01249.08	92365	V	4/23/18	4/23/18	2/15/18	35	5	Appendix 9 - Non-compressor components EF
01255	92365	V	4/23/18	4/23/18	2/15/18	35	5	Appendix 9 - Non-compressor components EF
01301.10	92365	V	4/24/18	4/24/18	2/15/18	35	6	Appendix 9 - Non-compressor components EF
01308	92365	V	4/24/18	4/24/18	2/15/18	35	6	Appendix 9 - Non-compressor components EF
01322.12	92365	V	4/24/18	4/24/18	2/15/18	35	6	Appendix 9 - Non-compressor components EF

01549	92365	V	4/24/18	4/24/18	2/15/18	35	6	Appendix 9 - Non-compressor components EF
01567	92365	V	4/24/18	4/24/18	2/15/18	35	6	Appendix 9 - Non-compressor components EF
01255	92365	V	7/23/18	7/23/18	4/24/18	46	7	Appendix 9 - Non-compressor components EF
01260	92365	V	7/23/18	7/25/18	4/24/18	48	8	Appendix 9 - Non-compressor components EF
01253.09	92365	V	7/23/18	7/23/18	4/24/18	46	7	Appendix 9 - Non-compressor components EF
01253	92365	V	7/24/18	7/24/18	4/24/18	47	7	Appendix 9 - Non-compressor components EF
01316.02	92365	V	7/25/18	7/25/18	4/24/18	47	7	Appendix 9 - Non-compressor components EF
01315.02	92365	V	7/25/18	8/6/18	4/24/18	59	9	Appendix 9 - Non-compressor components EF
01315.10	92365	V	7/25/18	8/6/18	4/24/18	59	9	Appendix 9 - Non-compressor components EF
01311.23	92365	V	7/25/18	7/25/18	4/24/18	47	7	Appendix 9 - Non-compressor components EF
01318	92365	V	9/12/18	12/31/18	7/25/18	136	21	Appendix 9 - Non-compressor components EF
01319	92365	V	9/12/18	12/31/18	7/25/18	136	21	Appendix 9 - Non-compressor components EF
01253	92365	V	10/30/18	10/31/18	9/12/18	26	4	Appendix 9 - Non-compressor components EF
02149	92365	V	10/31/18	10/31/18	9/12/18	26	4	Appendix 9 - Non-compressor components EF
02154	92365	V	10/31/18	10/31/18	9/12/18	26	4	Appendix 9 - Non-compressor components EF
01594.08	92365	V	10/31/18	10/31/18	9/12/18	26	4	Appendix 9 - Non-compressor components EF
01598.05	92365	V	10/31/18	10/31/18	9/12/18	26	4	Appendix 9 - Non-compressor components EF
01593.17	92365	C	2/14/18	2/14/18	9/20/17	75	10	Appendix 9 - Non-compressor components EF
01593.07	92365	C	2/14/18	2/14/18	9/20/17	75	10	Appendix 9 - Non-compressor components EF
01871.20	92365	C	2/14/18	2/14/18	9/20/17	75	10	Appendix 9 - Non-compressor components EF
01825.07	92365	C	2/14/18	2/14/18	9/20/17	75	10	Appendix 9 - Non-compressor components EF
01860.08	92365	C	2/13/18	2/13/18	9/20/17	74	10	Appendix 9 - Non-compressor components EF
01518.05	92365	C	2/13/18	4/24/18	9/20/17	144	20	Appendix 9 - Non-compressor components EF
01522	92365	C	2/13/18	12/31/18	9/20/17	395	55	Appendix 9 - Non-compressor components EF
01527.14	92365	C	2/13/18	2/13/18	9/20/17	74	10	Appendix 9 - Non-compressor components EF
01529.03	92365	C	2/13/18	4/23/18	9/20/17	143	20	Appendix 9 - Non-compressor components EF
01269.12	92365	C	2/13/18	12/31/18	9/20/17	395	55	Appendix 9 - Non-compressor components EF
01253.11	92365	C	2/13/18	2/16/18	9/20/17	77	11	Appendix 9 - Non-compressor components EF
01253.08	92365	C	2/13/18	2/16/18	9/20/17	77	11	Appendix 9 - Non-compressor components EF
01253	92365	C	2/13/18	2/16/18	9/20/17	77	11	Appendix 9 - Non-compressor components EF
01255	92365	C	2/13/18	2/15/18	9/20/17	76	11	Appendix 9 - Non-compressor components EF
01280.01	92365	C	2/13/18	2/14/18	9/20/17	75	10	Appendix 9 - Non-compressor components EF
01286	92365	C	2/14/18	2/16/18	9/20/17	77	11	Appendix 9 - Non-compressor components EF
01282	92365	C	2/14/18	2/14/18	9/20/17	75	10	Appendix 9 - Non-compressor components EF
01284.12	92365	C	2/14/18	2/14/18	9/20/17	75	10	Appendix 9 - Non-compressor components EF
01288.05	92365	C	2/14/18	2/14/18	9/20/17	75	10	Appendix 9 - Non-compressor components EF
01315.04	92365	C	2/14/18	2/16/18	9/20/17	77	11	Appendix 9 - Non-compressor components EF
01315.07	92365	C	2/14/18	2/16/18	9/20/17	77	11	Appendix 9 - Non-compressor components EF
01302.12	92365	C	2/14/18	2/16/18	9/20/17	77	11	Appendix 9 - Non-compressor components EF
01318	92365	C	2/14/18	12/31/18	9/20/17	395	55	Appendix 9 - Non-compressor components EF
01319	92365	C	2/14/18	12/31/18	9/20/17	395	55	Appendix 9 - Non-compressor components EF

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01329.04	92365	C	4/24/18	4/24/18	2/15/18	35	5	Appendix 9 - Non-compressor components EF
01549	92365	C	4/24/18	4/24/18	2/15/18	35	5	Appendix 9 - Non-compressor components EF
01567	92365	C	4/24/18	4/24/18	2/15/18	35	5	Appendix 9 - Non-compressor components EF
01593.03	92365	C	4/24/18	4/24/18	2/15/18	35	5	Appendix 9 - Non-compressor components EF
01255	92365	C	7/23/18	7/23/18	4/24/18	46	6	Appendix 9 - Non-compressor components EF
01260	92365	C	7/23/18	7/25/18	4/24/18	48	7	Appendix 9 - Non-compressor components EF
01253.09	92365	C	7/23/18	7/23/18	4/24/18	46	6	Appendix 9 - Non-compressor components EF
01253	92365	C	7/24/18	7/24/18	4/24/18	47	7	Appendix 9 - Non-compressor components EF
01276.03	92365	C	7/24/18	7/25/18	4/24/18	48	7	Appendix 9 - Non-compressor components EF
02160.02	92365	C	7/25/18	7/25/18	4/24/18	47	7	Appendix 9 - Non-compressor components EF
02156.05	92365	C	7/25/18	7/25/18	4/24/18	47	7	Appendix 9 - Non-compressor components EF
02156.11	92365	C	7/25/18	7/25/18	4/24/18	47	7	Appendix 9 - Non-compressor components EF
02156.17	92365	C	7/25/18	7/25/18	4/24/18	47	7	Appendix 9 - Non-compressor components EF
01328.01	92365	C	7/25/18	8/6/18	4/24/18	59	8	Appendix 9 - Non-compressor components EF
01316.02	92365	C	7/25/18	7/25/18	4/24/18	47	7	Appendix 9 - Non-compressor components EF
01315.02	92365	C	7/25/18	8/6/18	4/24/18	59	8	Appendix 9 - Non-compressor components EF
01315.10	92365	C	7/25/18	8/6/18	4/24/18	59	8	Appendix 9 - Non-compressor components EF
01311.23	92365	C	7/25/18	7/25/18	4/24/18	47	7	Appendix 9 - Non-compressor components EF
01318	92365	C	9/12/18	12/31/18	7/24/18	136	19	Appendix 9 - Non-compressor components EF
01319	92365	C	9/12/18	12/31/18	7/24/18	136	19	Appendix 9 - Non-compressor components EF
01253	92365	C	10/30/18	10/31/18	9/12/18	26	4	Appendix 9 - Non-compressor components EF
02149	92365	C	10/31/18	10/31/18	9/12/18	26	4	Appendix 9 - Non-compressor components EF
02154	92365	C	10/31/18	10/31/18	9/12/18	26	4	Appendix 9 - Non-compressor components EF
01594.08	92365	C	10/31/18	10/31/18	9/12/18	26	4	Appendix 9 - Non-compressor components EF
01598.05	92365	C	10/31/18	10/31/18	9/12/18	26	4	Appendix 9 - Non-compressor components EF
01685.19	93001	Other	3/14/18	3/14/18	9/27/17	85	8	Appendix 9 - Non-compressor components EF
02045	93001	Other	4/16/18	4/17/18	9/27/17	103	10	Appendix 9 - Non-compressor components EF
02034	93001	V	3/13/18	3/13/18	9/27/17	85	13	Appendix 9 - Non-compressor components EF
01685.09	93001	V	3/14/18	3/14/18	9/27/17	85	13	Appendix 9 - Non-compressor components EF
01710	93001	V	3/14/18	3/14/18	9/27/17	85	13	Appendix 9 - Non-compressor components EF
02034	93001	V	3/13/18	3/13/18	9/27/17	85	13	Appendix 9 - Non-compressor components EF
01485.08	93001	V	3/14/18	3/27/18	9/27/17	98	15	Appendix 9 - Non-compressor components EF
01489.08	93001	V	3/14/18	3/27/18	9/27/17	98	15	Appendix 9 - Non-compressor components EF
01488.02	93001	V	3/14/18	3/27/18	9/27/17	98	15	Appendix 9 - Non-compressor components EF
01486	93001	V	3/14/18	3/27/18	9/27/17	98	15	Appendix 9 - Non-compressor components EF
01465.01	93001	V	3/14/18	3/27/18	9/27/17	98	15	Appendix 9 - Non-compressor components EF
01461	93001	V	3/15/18	12/31/18	9/27/17	377	59	Appendix 9 - Non-compressor components EF
01459	93001	V	3/15/18	12/31/18	9/27/17	377	59	Appendix 9 - Non-compressor components EF
01463.23	93001	V	3/15/18	3/15/18	9/27/17	86	13	Appendix 9 - Non-compressor components EF
01457	93001	V	3/15/18	3/27/18	9/27/17	98	15	Appendix 9 - Non-compressor components EF
01455	93001	V	3/15/18	3/27/18	9/27/17	98	15	Appendix 9 - Non-compressor components EF

01487	93001	V	3/15/18	12/31/18	9/27/17	377	59	Appendix 9 - Non-compressor components EF
01482	93001	V	3/15/18	12/31/18	9/27/17	377	59	Appendix 9 - Non-compressor components EF
02045.05	93001	V	4/16/18	4/17/18	9/27/17	103	16	Appendix 9 - Non-compressor components EF
02028	93001	V	4/16/18	4/17/18	9/27/17	103	16	Appendix 9 - Non-compressor components EF
02057	93001	V	4/17/18	4/17/18	9/27/17	102	16	Appendix 9 - Non-compressor components EF
02034	93001	C	3/13/18	3/13/18	9/27/17	85	12	Appendix 9 - Non-compressor components EF
02035.04	93001	C	3/13/18	3/13/18	9/27/17	85	12	Appendix 9 - Non-compressor components EF
02044.03	93001	C	3/13/18	3/13/18	9/27/17	85	12	Appendix 9 - Non-compressor components EF
02044.01	93001	C	3/13/18	3/13/18	9/27/17	85	12	Appendix 9 - Non-compressor components EF
01685.09	93001	C	3/14/18	3/14/18	9/27/17	85	12	Appendix 9 - Non-compressor components EF
01710	93001	C	3/14/18	3/14/18	9/27/17	85	12	Appendix 9 - Non-compressor components EF
02034	93001	C	3/13/18	3/13/18	9/27/17	85	12	Appendix 9 - Non-compressor components EF
02035.04	93001	C	3/13/18	3/13/18	9/27/17	85	12	Appendix 9 - Non-compressor components EF
02044.01	93001	C	3/13/18	3/13/18	9/27/17	85	12	Appendix 9 - Non-compressor components EF
02044.03	93001	C	3/13/18	3/13/18	9/27/17	85	12	Appendix 9 - Non-compressor components EF
01485.08	93001	C	3/14/18	3/27/18	9/27/17	98	14	Appendix 9 - Non-compressor components EF
01485.09	93001	C	3/14/18	3/27/18	9/27/17	98	14	Appendix 9 - Non-compressor components EF
01489.08	93001	C	3/14/18	3/27/18	9/27/17	98	14	Appendix 9 - Non-compressor components EF
01488.02	93001	C	3/14/18	3/27/18	9/27/17	98	14	Appendix 9 - Non-compressor components EF
01486	93001	C	3/14/18	3/27/18	9/27/17	98	14	Appendix 9 - Non-compressor components EF
01465.01	93001	C	3/14/18	3/27/18	9/27/17	98	14	Appendix 9 - Non-compressor components EF
01479.03	93001	C	3/14/18	3/27/18	9/27/17	98	14	Appendix 9 - Non-compressor components EF
01461	93001	C	3/15/18	12/31/18	9/27/17	377	53	Appendix 9 - Non-compressor components EF
01459	93001	C	3/15/18	12/31/18	9/27/17	377	53	Appendix 9 - Non-compressor components EF
01463.23	93001	C	3/15/18	3/15/18	9/27/17	86	12	Appendix 9 - Non-compressor components EF
01457	93001	C	3/15/18	3/27/18	9/27/17	98	14	Appendix 9 - Non-compressor components EF
01455	93001	C	3/15/18	3/27/18	9/27/17	98	14	Appendix 9 - Non-compressor components EF
01455.05	93001	C	3/15/18	3/27/18	9/27/17	98	14	Appendix 9 - Non-compressor components EF
01454.01	93001	C	3/15/18	12/31/18	9/27/17	377	53	Appendix 9 - Non-compressor components EF
01487	93001	C	3/15/18	12/31/18	9/27/17	377	53	Appendix 9 - Non-compressor components EF
01482	93001	C	3/15/18	12/31/18	9/27/17	377	53	Appendix 9 - Non-compressor components EF
02045.05	93001	C	4/16/18	4/17/18	9/27/17	103	14	Appendix 9 - Non-compressor components EF
02028	93001	C	4/16/18	4/17/18	9/27/17	103	14	Appendix 9 - Non-compressor components EF
02057	93001	C	4/17/18	4/17/18	9/27/17	102	14	Appendix 9 - Non-compressor components EF
02053.05	93001	C	8/27/18	8/28/18	4/17/18	68	10	Appendix 9 - Non-compressor components EF
01961	93313	Relief	4/18/18	4/19/18	2/12/18	35	2	Appendix 9 - Non-compressor components EF
01649	93313	Relief	4/19/18	12/31/18	2/12/18	290	14	Appendix 9 - Non-compressor components EF
01966	93313	V	2/20/18	2/20/18	9/26/17	75	12	Appendix 9 - Non-compressor components EF
01967	93313	V	2/20/18	2/20/18	9/26/17	75	12	Appendix 9 - Non-compressor components EF
01971	93313	V	2/20/18	2/20/18	9/26/17	75	12	Appendix 9 - Non-compressor components EF
01380	93313	V	2/20/18	2/21/18	9/26/17	76	12	Appendix 9 - Non-compressor components EF

01981	93313	V	2/20/18	2/21/18	9/26/17	76	12	Appendix 9 - Non-compressor components EF
01990	93313	V	2/20/18	2/21/18	9/26/17	76	12	Appendix 9 - Non-compressor components EF
01988	93313	V	2/20/18	2/21/18	9/26/17	76	12	Appendix 9 - Non-compressor components EF
01984	93313	V	2/21/18	2/21/18	9/26/17	75	12	Appendix 9 - Non-compressor components EF
01982.04	93313	V	2/21/18	2/21/18	9/26/17	75	12	Appendix 9 - Non-compressor components EF
01974	93313	V	2/21/18	2/21/18	9/26/17	75	12	Appendix 9 - Non-compressor components EF
01624	93313	V	2/20/18	2/20/18	9/26/17	75	12	Appendix 9 - Non-compressor components EF
01635	93313	V	2/20/18	2/20/18	9/26/17	75	12	Appendix 9 - Non-compressor components EF
01646	93313	V	2/20/18	2/20/18	9/26/17	75	12	Appendix 9 - Non-compressor components EF
01650	93313	V	2/20/18	2/21/18	9/26/17	76	12	Appendix 9 - Non-compressor components EF
01660.03	93313	V	2/20/18	2/21/18	9/26/17	76	12	Appendix 9 - Non-compressor components EF
01665	93313	V	2/20/18	2/21/18	9/26/17	76	12	Appendix 9 - Non-compressor components EF
01684.02	93313	V	2/20/18	2/21/18	9/26/17	76	12	Appendix 9 - Non-compressor components EF
01422	93313	V	2/21/18	2/21/18	9/26/17	75	12	Appendix 9 - Non-compressor components EF
01967	93313	V	4/18/18	4/18/18	2/12/18	34	5	Appendix 9 - Non-compressor components EF
0639	93313	V	4/19/18	4/20/18	2/12/18	35	6	Appendix 9 - Non-compressor components EF
01412	93313	V	4/19/18	12/31/18	2/12/18	290	46	Appendix 9 - Non-compressor components EF
01392	93313	V	4/19/18	12/31/18	2/12/18	290	46	Appendix 9 - Non-compressor components EF
01411	93313	V	12/11/18	12/31/18	9/10/18	67	11	Appendix 9 - Non-compressor components EF
01422	93313	V	12/11/18	12/31/18	9/10/18	67	11	Appendix 9 - Non-compressor components EF
01966	93313	C	2/20/18	2/20/18	9/26/17	75	10	Appendix 9 - Non-compressor components EF
01967	93313	C	2/20/18	2/20/18	9/26/17	75	10	Appendix 9 - Non-compressor components EF
01965.03	93313	C	2/20/18	2/20/18	9/26/17	75	10	Appendix 9 - Non-compressor components EF
01971	93313	C	2/20/18	2/20/18	9/26/17	75	10	Appendix 9 - Non-compressor components EF
01380	93313	C	2/20/18	2/21/18	9/26/17	76	11	Appendix 9 - Non-compressor components EF
01981	93313	C	2/20/18	2/21/18	9/26/17	76	11	Appendix 9 - Non-compressor components EF
01990	93313	C	2/20/18	2/21/18	9/26/17	76	11	Appendix 9 - Non-compressor components EF
01988	93313	C	2/20/18	2/21/18	9/26/17	76	11	Appendix 9 - Non-compressor components EF
01984	93313	C	2/21/18	2/21/18	9/26/17	75	10	Appendix 9 - Non-compressor components EF
01982.04	93313	C	2/21/18	2/21/18	9/26/17	75	10	Appendix 9 - Non-compressor components EF
01974	93313	C	2/21/18	2/21/18	9/26/17	75	10	Appendix 9 - Non-compressor components EF
01624	93313	C	2/20/18	2/20/18	9/26/17	75	10	Appendix 9 - Non-compressor components EF
01635	93313	C	2/20/18	2/20/18	9/26/17	75	10	Appendix 9 - Non-compressor components EF
01646	93313	C	2/20/18	2/20/18	9/26/17	75	10	Appendix 9 - Non-compressor components EF
01650	93313	C	2/20/18	2/21/18	9/26/17	76	11	Appendix 9 - Non-compressor components EF
01660.03	93313	C	2/20/18	2/21/18	9/26/17	76	11	Appendix 9 - Non-compressor components EF
01665	93313	C	2/20/18	2/21/18	9/26/17	76	11	Appendix 9 - Non-compressor components EF
01684.02	93313	C	2/20/18	2/21/18	9/26/17	76	11	Appendix 9 - Non-compressor components EF
01422	93313	C	2/21/18	2/21/18	9/26/17	75	10	Appendix 9 - Non-compressor components EF
01967	93313	C	4/18/18	4/18/18	2/21/18	29	4	Appendix 9 - Non-compressor components EF
1625.01	93313	C	4/18/18	4/19/18	2/21/18	30	4	Appendix 9 - Non-compressor components EF

01932.01	93313	C	4/18/18	4/19/18	2/21/18	30	4	Appendix 9 - Non-compressor components EF
0639	93313	C	4/19/18	4/20/18	2/21/18	31	4	Appendix 9 - Non-compressor components EF
01661.03	93313	C	4/19/18	4/20/18	2/21/18	31	4	Appendix 9 - Non-compressor components EF
01412	93313	C	4/19/18	12/31/18	2/21/18	286	40	Appendix 9 - Non-compressor components EF
01421.01	93313	C	4/19/18	12/31/18	2/21/18	286	40	Appendix 9 - Non-compressor components EF
01392	93313	C	4/19/18	12/31/18	2/21/18	286	40	Appendix 9 - Non-compressor components EF
01411	93313	C	12/11/18	12/31/18	9/10/18	67	9	Appendix 9 - Non-compressor components EF
01422	93313	C	12/11/18	12/31/18	9/10/18	67	9	Appendix 9 - Non-compressor components EF
01957	93313	Compresso	4/18/18	4/18/18	2/21/18	29	4	Appendix 9 - Non-compressor components EF
01960	93313	Compresso	4/18/18	4/19/18	2/21/18	30	4	Appendix 9 - Non-compressor components EF
01962	93313	Compresso	4/18/18	4/19/18	2/21/18	30	4	Appendix 9 - Non-compressor components EF

Sum Total **10,784**

SoCalGas, June 15,2020

Rulemaking (R.) 15-01-008 to Adopt Rules and Procedures Governing Commission Regulated Natural Gas Pipelines and Facilities to Reduce Natural Gas Leaks Consistent In Response to Data Request, R15-01-008 - 2020 June Report Appendix 3 - Rev. 03/31/20

Notes:

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

Transmission Compressor Station Storage Tank Emissions:

Total Number	Discovery Date (DD/MM/YY)	Repair Date (DD/MM/YY)	Number of Days Emitting	Emission Factor (Mscf/yr)	Annual Emissions (Mscf)	Explanatory Notes / Comments
4	N/A	N/A	365	N/A	132	Condensate Tank*
1	N/A	N/A	365	N/A	33	Aboveground Waste Condensate Vessel*

Sum Total **165** Provided as an example.

Appendix 3 - Rev. 03/31/20

Header column "Comment" boxes displayed below for reference.	
Column Heading	Description and Definition of Required Contents (IF not self-explanatory)
Appendix 3 - Rev. 03/27/20	
ID	
Geographic Location	GIS, zip code, or equivalent
Compressor Type	C = centrifugal R = reciprocating
Prime Mover	
Number of Cylinders	
Number of Seals	
Seal Type	W = wet D = dry NA = not applicable
Measurment Frequency	A - Annual Q - Quarterly M - Monthly W - Weekly D - Daily
Emission Factor: Measurement Date - Pressurized Operations	
Operating Mode: Pressurized Operating (hours)	Use these EF columns as well as the columns for the Compressor Measurements noted in Columns R thru AB when they are applicable. If the data is not captured by the operator, then add a note explaining why the applicable measurement data was not recorded or available in the Explanatory Notes / Comments column.
Operating Mode: Pressurized Idle (hours)	
Operating Mode: Depressurized Idle (hours)	
Operating Mode: Offline (Hours)	
Emission Factor: Pressurized Operating (scf/hr)	
Emission Factor: Pressurized Idle (scf/hr)	
Emission Factor: Depressurized Idle (scf/hr)	
Emission Factor: Offline (scf/hr)	If the "Offline" hours are counted, then a measurement of "offline" emissions should be taken to determine whether emissions occur. (We should not assume they are zero.)

The Columns P thru AB were added to the template and should be used for the indicated measured compressor emissions, which include Centrifugal compressors in accordance with OGR and your operating practice.

For the 2019 data reporting of compressor vented emissions: Where more than one measurement was taken during the year (e.g. after a maintenance cycle*, monthly, or quarterly), use the measured EF multiplied by the activity hours that occurred during the

Emission Factor: Pressurized Operating - Rod Packing (scf/hr)	These are new columns for reporting year 2020 of 2019 data. These only apply to operators who during their operations and surveys of compressor stations measure their Compressor Vented Emissions for these components of the compressor. Not all gas operators measure vented emissions and establish flow rates for	corresponding period. For example, if the compressor measurement was taken quarterly, then the measured EF should be multiplied by the activity hours that occurred in the respective quarter, and the same for more frequent measurments (e.g. monthly, weekly etc.). For each compressor devote one row per measurement period (see example provided). In the case of a single annual measurement EF, then that EF would apply to the activity hours for each respective mode for the entire year (which is consistent with prior year reporting practice). * If a measurement is taken after a maintenance cycle and no other measurements were taken during the remainder of the year, then use this measured EF for the activity hours occurring after the measurement date thru 12/31/xx. The activity hours prior to the maintenance of the compressor from the beginning of the year should use the previously measured EF, even if the EF was measured in the prior year.
Emission Factor: Pressurized Operating - Blowdown Valve (scf/hr)	CPUC Staff strongly encourage more frequent measurement of the following compressor vented emissions. Compliance minimum is once annually, though Staff suggest the minimum frequency should be quarterly and measured at roughly the same time each quarter (e.g. on or around the component survey given mode of operation). More frequent measurements, e.g. monthly would be better due to the temporal changes in conditions that effect emissions. The more frequent measurements also provide an opportunity to detect worn rod packing or seals, which exacerbate emissions, and with timely awareness of suboptimal operations gas operators have an opportunity for accelerating maintenance to correct worn parts. The following steps for reporting more frequent measurements in 2019 are outlined in the adjacent cell, and should be provided if available. Advance notice for 2021 reporting, CPUC Staff will propose quarterly reporting at the winter workshop. Therefore, gas companies are requested to start measuring compressor emissions on at least a quarterly basis for the remainder of 2020, if not doing so already. This will ensure gas companies are prepared to report these emissions in accordingly in 2021.	
Emission Factor: Pressurized Operating - Wet Seal Oil Degassing Vent (scf/hr)		
Emission Factor: Pressurized Operating - Wet Seal (scf/hr)		
Emission Factor: Pressurized Operating - Dry Seal (scf/hr)		
Emission Factor: Pressurized Idle - Rod Packing (scf/hr)		
Emission Factor: Pressurized Idle - Blowdown Valve (scf/hr)		
Emission Factor: Pressurized Idle - Wet Seal Oil Degassing Vent (scf/hr)		
Emission Factor: Pressurized Idle - Wet Seal (scf/hr)		
Emission Factor: Pressurized Idle - Dry Seal (scf/hr)		
Emission Factor: Pressurized Idle - Isolation Valve (scf/hr)		
Annual Emissions (Mscf)		
Explanatory Notes / Comments		

Blowdowns	
ID	
Geographic Location	GIS, zip code, or equivalent
Number of Blowdown Events	
Annual Emissions (Mscf)	
Explanatory Notes / Comments	

Component Vented Emissions	
ID	
Geographic Location	GIS, zip code, or equivalent

Device Type	C = connector O = open-ended line M = meter P = pneumatic device PR = pressure relief valve V = valve
Bleed Rate	L = low bleed I = intermittent bleed H = high bleed NA = not applicable
Manufacturer	
Engineering or Manufacturer's based Estimate of Emissions	
Annual Emissions (Mscf)	
Explanatory Notes / Comments	

Compressor & Component Leaks	
ID	
Geographic Location	GIS, zip code, or equivalent
Device Type	C = connector O = open-ended line M = meter P = pneumatic device PR = pressure relief valve V = valve OT = Other
Emission Factor: Mscf/day/dev	From Appendix 9 use the applicable EF, and if necessary convert it to Mscf/day for each device.
Manufacturer	
Discovery Date (MM/DD/YY)	List the actual discovery date. If the leak was discovered in the year of interest or carried over from prior year, then we will assume the component was leaking from the beginning of the year for emissions reporting purposes, or prior survey date if surveyed previously within the year of interest.
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.

Number of Days Leaking	<p>The algorithm that is used for determining the number of days leaking should conform to the following guidance:</p> <p>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>
	Emission Factor (Mscf/day)
	Annual Emissions (Mscf)
	Explanatory Notes / Comments

Storage Tanks	
Total Number	
Discovery Date (DD/MM/YY)	
Repair Date (DD/MM/YY)	
Number of Days Emitting	Emitting from discovery date thru the repair date (if repaired in year of interest) or December 31 of subject year, whichever is earlier. (Duration of Leak = discovery date - repair date (or December 31) + 1 day.)
Emission Factor (Mscf/yr)	
Annual Emissions (Mscf)	