BEFORE THE STATE CORPORATION COMMISSION OF THE STATE OF KANSAS

In the Matter of the Application of)	
Kansas Gas Service Company, a Division)	
of ONE Gas, Inc., Regarding the filing of)	Docket No. 18-KGSG-317-CPL
its Plan for the Replacement of Obsolete)	
Materials in Populated Areas.)	

COMPLIANCE FILING OF KANSAS GAS SERVICE

As previously recommended by Commission Staff ("Staff"), Kansas Gas Service, a Division of ONE Gas, Inc., (also referred to as "KGS" and/or "Company") hereby files its annual report detailing the Company's progress in meeting its goals established in its accelerated replacement plan. The Company provides and states as follows:

- 1. On April 24, 2018, KGS filed in this docket its *Compliance Filing of Kansas Gas*Service Final Plan for Replacement of Obsolete Materials in Populated Areas ("Plan"). Within the Plan, KGS indicated that it would begin working its plan in 2019.
- 2. On December 19, 2018, Staff filed a memorandum in Docket No. 15-GIMG-343-GIG making recommendations for the monitoring of various issues raised in the docket, including the monitoring of plans for the accelerated replacement of obsolete pipe. Among its recommendations, Staff suggested that the utilities file an annual compliance report by March 31 detailing progress made in the preceding year on the accelerated replacement plan, to include an explanation of any deviation from initial projections, any deviations from the previous year's projections, and a revision of remaining plan projections. Staff also recommended that utilities update Tables LMH-1 and LMH-2

¹ See, Docket No. 15-GIMG-343-GIG, Notice of Filing Staff Memorandum, at Memorandum, p8 (December 19, 2018).

and provide a discussion on the progress toward adopting/implementing a Pipeline Safety Management System ("PSMS").²

- 3. While the Commission has not yet issued an order concerning Staff's recommendation for updating the plan, KGS is documenting its progress in accordance with the recommendations set out in Staff's memorandum.
- 4. KGS implemented its plan in January 2019. The attachments to this filing provide an update on the Company's progress made during 2020 and include information regarding any deviations from the Company's initial Plan or deviations from revised projections. At this time, KGS has no revisions to its Plan. Additionally, KGS is providing updating the information contained in its Tables LMH-1 and LMH-2 (as modeled by Staff in its Memorandum), along with a discussion of its progress toward adopting a Pipeline Safety Management System ("PSMS") as promoted by PHMSA.
- 5. KGS is also including a reporting of its mileage of mains, by type and by community along with the leak information, as directed by the Commission in Docket No. 15-GIMG-343-GIG.³ In addition to the information contained in this filing, KGS is confirming that, on March 1, 2021, KGS filed in this docket its lost and unaccounted for gas by community report as also directed by the Commission in Docket No. 15-GIMG-343-GIG.⁴
- 6. Should Staff so desire, KGS will arrange to meet with Staff after making its 2021 Gas System Reliability Surcharge ("GSRS") filing to further discuss the progress made toward the completion of the Plan.
- 7. WHEREFORE, Kansas Gas Service, a division of ONE Gas, prays the Commission enter an Order accepting this compliance filing and for such other relief as the Commission may deem just and proper.

 $^{^2}$ Id

³ See, Docket No. 15-GIMG-343-GIG, Final Order, p.51, ¶B. (Sept. 12, 2017).

⁴ Id.

Respectfully submitted,

Judy Jenkins Hitchye Judy Jenkins Hitchye, KS # 23300/ Managing Attorney

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VERIFICATION

STATE OF KANSAS)	
COUNTY OF JOHNSON)	
I, Judy Jenkins Hitchye, of lawful age, being follows: I am a Managing Attorney for Kansas Gas I have read the above <i>Compliance Filing</i> and all the of my knowledge, information and belief.	Service, a Division of ONE Gas, Inc.
	1st G.G. Hitchye
	Judy Jenkins Hitchye
	Affiant
SUBSCRIBED AND SWORN to before me on 3/3	31/2021.
	Notary public
My Appointment Expires:	CORP. STEPHANE E FAMIG
04/05/22	My Appointment Expires June 5, 2022

Plan Update

Kansas Gas Service ("KGS" or "Company") began its systematic accelerated replacement plan ("Plan") in January 2019 and expects to replace all cast iron mains, bare steel service lines and bare steel mains located in populated areas within 35 years of the Plan commencement date. Specifically, KGS's Plan indicated that all remaining cast iron mains would be replaced by 2019; all bare steel service lines in populated areas would be replaced by the end of 2024; the majority of unprotected bare steel mains in populated areas would be replaced by the end of 2028 and all replaced by 2053; and all protected bare steel mains in populated areas would be replaced by the end of 2053. In 2020, KGS planned to replace 7,500 service lines, 15 miles of unprotected bare steel mains and 7 miles of protected bare steel mains. Actual replacements in 2020 are discussed below.

As a result of the Company's Plan, KGS has accelerated the replacement footage of problematic pipe. In 2019, KGS completed the replacement of cast iron mains as planned. All known cast iron mains have been removed from the Company's system. In 2020, 6,952 bare steel service lines were replaced, slightly less than 7,500 planned replacements. KGS remains on target to remove all bare steel service lines by 2024. Additionally, KGS replaced 19 miles of unprotected bare steel mains. This is greater than planned. Finally, KGS replaced 23 miles of protected bare steel mains in 2020, which is more than planned. KGS remains on target to complete the replacement of protected bare steel mains by 2053.

As of the date of this report, KGS does not have any revisions to the final Plan for Replacement of Obsolete Materials in Populated Areas.

LMH-1 and LMH-2 Update

See below for the update to exhibits LMH-1 and LMH-2 as requested in the memorandum filed by KCC Staff on December 19, 2018.

LMH-1

Number of Urban Areas	348
Miles bare steel main (1)	1,225
Planned (miles/yr.) Replacement Rate	15-26
Number bare steel service lines ¹	24,998
Planned svc (line/yr.) Replacement Rate	7,500
Miles of cast iron mains	0
Years to completion	33
CY2019 underground leaks per 100 miles obsolete piping	34.2
Total project cost, current \$	\$1,760 million

LMH-2

Main Replacement Estimate (\$/mile)	\$500,000
Service Line Replacement Estimate (\$/ea.)	\$2,611
2020 CAPEX for safety for distribution system	\$46,965,017
Miles undesirable pipe replaced	123 miles
Average costs of replacing undesirable pipe (\$/mile-equivalent) in GSRS	
filing Docket 20-KGSG-090-TAR	\$392,899

Pipeline Safety Management System (PSMS) Implementation Update

Kansas Gas Service (KGS) has been actively working to implement the American Petroleum Institute's (API) Recommended Practice (RP) 1173: Pipeline Safety Management

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¹ As of 3/2/2021

System (PSMS) since 2016. Additionally, on May 20th, 2019, the American Gas Association (AGA) board asked member companies to commit to implementing PSMS within 3 years. KGS was an early and enthusiastic supporter of this industry-wide commitment.

KGS has made progress on all 10 elements to continue the PSMS journey. The elements along with notable activities are listed below.

- 1. Leadership and Management Commitment / Management Review and Continuous

 Improvement
 - 2017 The organization hired dedicated resources to focus on PSMS efforts and move initiatives forward
 - 2017 The organization implemented an Environmental, Health, Safety and Compliance (EHS&C) Steering Committee, made up of Executive Leadership and exofficio members, that meets monthly to discuss key operations programs and areas
 - 2018 The organization performed a gap assessment to determine current state of PSMS
 - 2019 The organization signed a commitment letter towards implementing PSMS from the Senior Vice President of Operations and CEO
 - 2020 Aligned the annual ESH&C Steering Committee cadence to ensure annual coverage of all API-RP-1173 PSMS elements
 - 2020 The organization performed an in-depth gap assessment, aligned with industry tools, to determine current maturity of PSMS
 - 2021 The organization hired two additional specialists to focus on PSMS efforts and help move initiatives forward

2. Operational Controls

- 2019 The organization completed a ONE Gas procedure manual re-write consolidating three historical state-based operating procedures into a consolidated version
- 2020 The organization implemented an electronic approval system for Senior Leaders to more efficiently document procedural change reviews
- 2020 The organization implemented enhanced Computer Based Training (CBT) and Technical Training updates to communicate / document procedure updates

3. Safety Assurance

- 2016 The organization established an internal Pipeline Safety Compliance Group
 (PSCG) focused on reviewing and generating action plans for gaps identified regarding
 key compliance programs and tasks
- 2020 The organization continues to address Corrective Action Plans (CAPs) identified by PSCG reviews and state regulatory/compliance audits
- 2020 The organization established an Emergency Response Time (ERT) metric to monitor performance

4. Emergency Preparedness and Response

- 2019 The organization updated the Pipeline Emergency Response Procedure (PERP) to include the use of an Incident Command Structure (ICS) as noted in PSMS
- 2019 The organization conducted PERP and ICS training for key stakeholders
- 2019 The organization conducted emergency response drills including local public officials and attended Local Emergency Planning Committee (LEPC) meetings with emergency responders.

• 2020 - The organization continues to collaborate with external parties (local public

officials, emergency responders, and LEPC's) when performing annual internal mock drills

5. Stakeholder Engagement

• 2020 - The organization started an internal communication campaign for employees

introducing the 'Plan, Do, Check, Act' spirit of PSMS and is embedded in articles

highlighting improvement initiatives across the organization

• 2020 – 2021 - The organization built a mobile / desktop application, called O-Net,

allowing employees to submit issues, ideas and good catches. This new platform enhances

collaboration and supports maturity of PSMS forward. The platform will be rolled out

through a phased implementation throughout 2021

6. Competence, Awareness and Training

• 2020 - The organization broke ground on a training center in Tulsa, OK that will

enhance employee competence, awareness, and training

7. Risk Management

• 2020 - The organization signed an agreement to implement a new probabilistic risk

model focused on distribution assets to further support the Distribution Integrity

Management Program (DIMP). The new risk model is scheduled to be implemented by

O4 2021

8. Incident Investigation, Evaluation and Lessons Learned

• 2021 - The organization established a process for all Pipeline Emergency Response

Plan (PERP) Category II events be reviewed by PSCG to identify root cause and lessons

learned

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9. Documentation and Recordkeeping

• 2020 - The organization continues to scan historical paper records into our

electronic system of record (Perceptive) to support data driven decisions

• 2020 - The organization implemented a tracking and traceability software platform

(Locus View) to improve documentation of transmission and high-pressure distribution

construction projects which meet Traceable, Verifiable and Complete (TVC) requirements

• 2020 - The organization implemented a Geographical Information System (GIS)

Data Governance Committee to focus on GIS data quality and governance in support of

data driven decisions

KGS will continue the implementation towards all 10 elements and monitor the overall maturity

of PSMS.

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Below is Kansas Gas Service's submission reporting miles of facilities by material type and location. The information is provided in the format prescribed by Staff and reflects data as of March 2, 2021. The Company also provides the leak information as of December 31, 2020.

Miles of	Main by Lo	ocation			
	Urban	Rural	Total		
Protected Coated	2,410	1,406	3,816		
Protected bare	1,039	685	1,724		
Unprotected Coated	0	1	1		
Unprotected Bare	173	39	212		
Cast Iron	0	0	0		
PVC	1	141	142		
PE	2,903	1,241	4,144		
Aldyl-A & Marlex	1,078	455	1,533		
Other	0	0	0		
Total	7,604	3,968	11,572		

Number of	Services by	Location	
	Urban	Rural	Total
Protected Coated	5,157	2,063	7,220
Protected Bare	3,757	2,266	6,023
Unprotected Coated	3,062	1,230	4,292
Unprotected Bare	14,882	4,093	18,975
Cast Iron	0	0	0
PVC	0	56	56
PE	369,114	109,252	478,366
Aldyl-A & Marlex	105,384	12,815	118,199
Other	0	0	0
Total	501,356	131,775	633,131

Leaks Found During Inspection Year by Leak Classification											
Class 1 Class 2 Class 3 Total											
# of Leaks Found	1,237	185	675	2,097							
# of Leaks Repaired	1,237	194	598	2,029							
# of Current Leaks	0	12	664	676							

Note:

The differentiation between the urban and rural areas for this report is determined using a population density of 360 people per square mile based on census data. This delineation was

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Appendix B

derived after a review of Census Blocks at metropolitan interfaces between populated and rural

areas and is subject to additional review and potential adjustment by subject matter experts.

Because many of the small communities served by Kansas Gas Service have low population

densities, they are likely within the rural location type.

Distribution mains and services will not reconcile to the PHMSA distribution reports due

to changes made to the Company's database systems over the last several months.

Kansas Gas Service will continue to refine this report as system improvements are made.

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			MATERIALS SECTION					INSTALLATION AND OPERATIONS SECTION						
Line No.	Reporting Date	TYPE OF MATERIAL	(DESCRIBE IF OTHER)	MANUFACTURER	SDR,DR, SCHEDULE or WALL THICKNESS	NOMINAL SIZE	METHOD OF INSTALLATION (Open Trench, Bored, Plowed In, Insertion, Joint Trench, Planted, Unknown, Other - describe, Direct Bury)	TYPE OF SOIL IN CONTACT WITH PIPE (Sand, Loam, Clay, Rocky, Slurry, Other - describe)	OPERATING PRESSURE AT TIME OF FAILURE (psig)	OPERATING PRESSURE NORMAL RANGE MINIMUM (if known) (psig)	OPERATING PRESSURE NORMAL RANGE MAXIMUM (if known) (psig)	DATE OF INSTALLATION	FAILURE LOCATION (Pipe, Fitting or Joint)	FAILURE IN FITTING (Transition, Valve, Meter Riser, Mechanical Fitting, Heat Fusion Fitting, Electrofusion Fitting, Other describe)
1	Feb-20 M	IDPF2406		Driscopipe		3/4" CTS	Open Trench	Unknown	18	3		02/13/1980	Joint	
2	Feb-20 M			Driscopipe	_	2" IPS	Open Trench	Clay	12			11/24/2009	Joint	
2						2" IPS	•	•					Joint	
3	Feb-20 H			Polypipe			Open Trench	Clay	40			06/03/2015	_	
4	Feb-20 M			Polypipe		3/4" CTS	Open Trench	Loam	35			06/18/2007	Pipe	
5	Feb-20 H			Polypipe		2" IPS	Open Trench	Clay	40)		07/18/1980	Joint	
6	Feb-20 H	DPE3406		Plexco		2" IPS	Open Trench	Loam	4			11/30/1981	Joint	
7	Feb-20 M	IDPE2406		Driscopipe		1/2" CTS	Open Trench	Clay	18	3		12/14/1979	Joint	
8	Feb-20 M	IDPE2406		Driscopipe		3/4" CTS	Open Trench	Clay	58	3		09/08/2008	Joint	
9	Mar-20 M	IDPE2406		Driscopipe		3/4"	•		25 psig			08/06/2007	Joint	Transition
10	Mar-20 M	IDPE2406		Driscopipe		1-1/4"			48 psig			12/10/1987	Joint	
11	Mar-20 M	IDPE2406		Driscopipe		3/4"		Clay	18 psig			04/30/1991	Pipe	
12	Mar-20 M			Driscopipe		3/4"			30 psig			11/08/1991	Pipe	
13	Mar-20 M			Driscopipe		2"			20 psig			01/14/1981	Joint	
14	Mar-20 M			Driscopipe		3/4"			35 psig			10/21/1982	Joint	
15		IDPE2406		Driscopipe		3/4"		•	18 psig			05/26/2006	Fitting	
16		IDPE2406		Driscopipe		3/4"			48 psig			06/15/1983	Joint	
17		IDPE2406		Driscopipe		3/4"			15 psig			06/06/2002	Pipe	
18		IDPE2406		Driscopipe		3/4"			25 psig			10/21/1987	Joint	
19	Apr-20 M			Driscopipe		3/4"			45 psig			02/15/1995	Joint	
20 21	Apr-20 M	IDPE2406		Performance Pipe		3/4"			2.5 ounce			08/19/2014 08/17/1992	Joint Joint	
22		IDPE2406		Driscopipe Driscopipe		3/4"			25 psig 45 psig			10/16/1975	Joint	
23		IDPE2406		Driscopipe		3/4"		Clay	15 psig			04/23/2015	Joint	
24		IDPE2406		Driscopipe		3/4"			34 psig			06/25/2003	Pipe	
25	May-20 M			Driscopipe		3/4"			45 psig			03/07/2001	Joint	
26	May-20 M			Driscopipe		3/4"			14 psig			01/01/2009	Pipe	
27	May-20 M			Driscopipe		2.0"			52 psig			03/23/1981	Fitting	O-Ring
28	May-20 M			Driscopipe		3/4"			22 psig			09/08/2009	Fitting	Service Tee Cap
29	May-20 M			Performance Pipe		3/4"			12 psig			N/A	Pipe	,
30	May-20 H			Performance Pipe		3/4"		•	18 psig			06/28/1982	Joint	
31	May-20 H			Performance Pipe		3/4"			58 psig			08/20/2008	Joint	
32	May-20 M			Driscopipe		3/4"		-	58 psig			N/A	Pipe	
33	May-20 M			Performance Pipe		3/4"			13 psig			08/18/1998	Pipe	
34		IDPE2306		Driscopipe		1.0"			14 psig			08/29/1986	Pipe	
35	Jun-20 O			Other		2.0"		•	45 psig			08/25/1994	Joint	O-miles Tes O
36		IDPE2406		Driscopipe		2.0"			15 psig			03/12/2008	Fitting	Service Tee Cap
37		IDPE2406 IDPE2406		Polypipe Plexco		0.75" 0.75"			15 psig			07/18/2006 01/24/2007	Pipe Fitting	Service Tee Cap
38 39	Jun-20 M					0.75"			18 psig 25 psig			10/01/1986	Pipe	Service ree Cap
40		IDPE3408		Driscopipe Driscopipe		1.0"			18 psig			11/13/1978	Fitting	Nutfollower
41		IDPE2406		Other		2.0"		Caliche				01/01/1965	Joint	NULIUIUWGI

			FAILURE ANALYSIS SECTION			
Line No.	Description of Other Fitting Type	FAILURE IN JOINT (Mechanical, Electrofusion, Butt Fusion, Socket Fusion, Saddle Fusion, Solvent, Other describe)	FAILURE CAUSE (Squeeze Off, Point Loading, Excessive Expansion/Contraction, Excessive External Earth Loading, Installation Error, Previous Impact, Unknown, Unknown - not excavated - abandoned, Unknown - not excavated - replaced, Material Defect - describe, Other - describe)	ADDITIONAL FAILURE CAUSE (Squeeze Off, Point Loading, Excessive Expansion/Contraction, Excessive External Earth Loading, Installation Error, Previous Impact, Unknown, Unknown - not excavated - abandoned, Unknown - not excavated - replaced, Material Defect - describe, Other - describe)	Description of Material Defect or Other Failure Cause	DATE OF FAILURE
1		Mechanical Fitting Seal	Excessive Expansion/Contraction		Tap Tee o-ring leaking	02/05/2020
2		Mechanical Fitting Seal	Excessive Expansion/Contraction		AmFit Saddle Seal	06/04/2019
3		Mechanical Fitting Seal	Excessive Expansion/Contraction		AmFit Saddle Seal	02/26/2019
4		Wednamear rung dear	POINT LOADING	Excessive External Earth Loading	Pipe Sheared	02/20/2019
4		Markania I Figura Cont		EACCSSIVE EXTERNAL EARTH LOADING	<u>'</u>	
5		Mechanical Fitting Seal	Excessive Expansion/Contraction		AmFit Saddle Seal	02/10/2020
6		Mechanical Fitting Seal	Excessive Expansion/Contraction		Bolt-on Saddle O-Ring Seal	02/24/2020
7		Mechanical Fitting Seal	Excessive Expansion/Contraction		Amfit Saddle Seal	02/26/2020
8		Mechanical Fitting Seal	Excessive Expansion/Contraction		Dresser Nut Seal At Tap	02/14/2020
9		_	Extensive expansion/contraction		O-ring leaking	03/03/2020
10		Mechanical	Extensive expansion/contraction		O-ring leaking	03/04/2020
11			POINT LOADING	Excessive External Earth Loading	Improper backfilling	01/06/2020
12			POINT LOADING	Excessive External Earth Loading	Loading cause pipe shear	03/25/2020
13		Mechanical	Extensive expansion/contraction		Tapping saddle o-ring leaking	03/20/2020
14		Mechanical	Extensive expansion/contraction		AMFit Saddle o-ring leaking	03/31/2020
15		Mechanical	Extensive expansion/contraction		O-ring leaking	04/19/2018
16		Mechanical	Extensive expansion/contraction		O-ring leaking	04/09/2020
17			POINT LOADING	Excessive External Earth Loading	Improper backfilling	04/09/2020
18		Mechanical	Extensive expansion/contraction		O-ring leaking	04/13/2020
19		Mechanical	Extensive expansion/contraction		Tapping saddle o-ring leaking	04/25/2019
20		Mechanical	Extensive expansion/contraction		AMFit Saddle o-ring leaking	02/11/2019
21		Mechanical	Extensive expansion/contraction		O-ring leaking	08/17/1992
22		Mechanical Mechanical	Extensive expansion/contraction		O-ring leaking	04/21/2020
23 24		Mechanical	Installation Error	Evenesive external earth leading	Joint not tightened properly Improper backfilling	05/13/2019
25		Mechanical	Point Loading Equipment Failure	Excessive external earth loading	O-ring Leaking	12/31/2019 05/01/2020
26		IVIECHAINCAL	Third party Damage		Third party Damage	05/06/2020
27			Equipment Failure		Gasket/O-Ring Leaking	04/23/2020
28			Installation Error		Loose Service Tee Cap	05/07/2020
29			Point Loading		Pipe Sheer	10/12/2019
30		Tap Connection	Equipment Failure	Gasket/O-Ring	Amp Saddle	06/20/2018
31		Tap Connection	Equipment Failure	Gasket/O-Ring	Amp Saddle	06/20/2018
32			Other - Excavator Error	Other - Water Pipe Locate Wire Severed Serviceline		05/21/2020
33			Natural Causes/Ground Movement		Sheered Tee	05/16/2018
34			Natural Causes/Ground Movement	Meter Loop	Tree Roots	06/02/2020
35		Tap Connection	Equipment Failure	Gasket/O-Ring	O-Ring Pinched	04/23/2020
36			Natural Causes/Ground Movement		Loose Service T Cap	05/23/2020
37			Third Party Damage		Third Party Damage	06/09/2020
38			Incorrect Installation	Failure to follow Procedures	Loose Tee Cap	10/23/2018
39			Third Party Damage		Third Party Damage	06/18/2020
40			Material, Weld or Joint Failure		Compression Coupling	05/01/2020
41		Tap Connection	Equipment Failure	Gasket/O-Ring	Amp Saddle	06/10/2020

			MA	ATERIALS SECTIO	N			INSTALL	ATION AND O	PERATIO	NS SECTION	N		
Line No.		PE OF TERIAL	(DESCRIBE IF OTHER)	MANUFACTURER	SDR,DR, SCHEDULE or WALL THICKNESS	NOMINAL SIZE	METHOD OF INSTALLATION (Open Trench, Bored, Plowed In, Insertion, Joint Trench, Planted, Unknown, Other - describe, Direct Bury)	TYPE OF SOIL IN CONTACT WITH PIPE (Sand, Loam, Clay, Rocky, Slurry, Other - describe)	OPERATING PRESSURE AT TIME OF FAILURE (psig)	OPERATING PRESSURE NORMAL RANGE MINIMUM (if known) (psig)	OPERATING PRESSURE NORMAL RANGE MAXIMUM (if known) (psig)	DATE OF INSTALLATION	FAILURE LOCATION (Pipe, Fitting or Joint)	FAILURE IN FITTING (Transition, Valve, Meter Riser, Mechanical Fitting, Heat Fusion Fitting, Electrofusion Fitting, Other - describe)
42	Jun-20 MDPE	=2306		Driscopipe		0.75"		Loam	35 psig			06/02/2015	Fitting	Service Tee Cap
43	Jun-20 MDPE			Driscopipe		0.5"			15 psig			06/12/2012	Fitting	Coupling
44	Jun-20 HDPE			Driscopipe		0.875"			25 psig			11/01/1992	Fitting	O-Ring
45	Jun-20 MDPE			Nipak		2.0"			45 psig			09/08/1980	Fitting	Tap Connection
46	Jun-20 Other			Other		0.875"			40 psi			07/28/1987	Fitting	Service Tee Cap
47	Jun-20 HDPE			Driscopipe		1.25"		Loam	10 psi			12/14/2007	Joint	Coupling
48	Jun-20 HDPE			Plexco		2.0"		Clay	18 psi			08/31/1995	Fitting	Service Tee Cap
49	Jun-20 MDPE			Driscopipe		1.25"		•	45 psi			07/28/1975	Fitting	Meter Riser
50	Jul-20 HDPE			Driscopipe		0.875"			N/A			06/05/1989	Fitting	Tap Connection
51	Jul-20 Other			Driscopipe		0.5"		Clay	15 psig			10/21/2011	Pipe	тыр сеннесиен
52	Jul-20 MDPE			Driscopipe		2.0"		•	45 psig			08/09/2011	Fitting	Tap Connection
53	Jul-20 HDPE			Driscopipe		0.875"			35 psig			01/01/1965	Pipe	r up dermiedien
54	Jul-20 Other			Driscopipe		0.75"		•	15 psig			11/02/1977	Pipe	
55	Jul-20 MDPE			Other		1.0"			14 oz			12/05/2012	Pipe	
56	Jul-20 MDPE			Polypipe		0.75"		Rocky	1.88 psig			02/06/1991	Pipe	
57	Jul-20 HDPE			Driscopipe		0.625"			45 psig			09/23/1997	Pipe	
58	Jul-20 HDPE			Plexco		0.75"			18 psig			11/15/1991	Fitting	Service Tee Cap
59	Jul-20 MDPE			Driscopipe		2.0"			58 psig			N/A	Fitting	Tap Connection
60	Jul-20 Other			Other		0.75"			45 psig			09/02/1987	Fitting	Riser
61	Jul-20 Other			Other		2.0"			32 psig			10/24/1981	Fitting	Tap Connection
62	Jul-20 Aldyla			Other		1.0"			20 psig			01/01/1965	Fitting	Service Tee Cap
63	Jul-20 Other			Driscopipe		2.0"			40 psig			N/A	Fitting	Service Tee Cap
64	Jul-20 HDPE			Driscopipe		2.0"			45 psig			N/A	Fitting	Service Tee Cap
65	Jul-20 Other			Other		2.0"			32 psig			N/A	Fitting	Tap Connection
66	Jul-20 MDPE			Driscopipe		0.75"			24 psig			N/A	Pipe	rap comission
67	Jul-20 Other			Other		0.875"			30 psig			03/15/1979	Fitting	Tap Connection
68	Jul-20 Other			Driscopipe		1.25"		•	48 psig			02/16/1994	Fitting	Tap Connection
69	Aug-20 MDPE			Driscopipe		0.75"			45 psig			06/11/1985	Fitting	Riser
70	Aug-20 MDPE			Plexco		0.75"			12 oz			03/22/2008	Fitting	Service Tee
71	Aug-20 Other			Other		0.75"			45 psig			01/19/1989	Joint	
72	Aug-20 MDPE			Driscopipe		0.75"			45 psig			12/05/1980	Fitting	Riser
73	Aug-20 HDPE			Driscopipe		0.75"			25 psig			03/20/1979	Fitting	Riser
74	Aug-20 MDPE			Driscopipe		0.75"			25 psig			06/03/1974	Fitting	Riser
75	Aug-20 MDPE			Driscopipe		0.75"			25 psig			02/26/1990	Fitting	Riser
76	Aug-20 MDPE			Driscopipe		0.875"			35 psig			12/13/1988	Pipe	
77	Aug-20 HDPE			Driscopipe		2.0"			1.25 psig			08/25/1981	Fitting	Tap Connection
78	Aug-20 OTHE			Driscopipe		0.875"			24 psig			10/25/1986	Fitting	Tap Connection
79	Aug-20 HDPE			Other		2.0"			45 psig			12/15/1982	Fitting	Tap Connection
80	Sep-20 HDPE			Driscopipe		0.75"			19 psig			02/14/1977	Fitting	Service Tee
81	Sep-20 MDPE			Driscopipe		0.75"			18 psig			N/A	Fitting	Tap Connection
82	Sep-20 HDPE			Driscopipe		0.75"			18 psig			07/16/1981	Fitting	Tap Connection
83	Sep-20 MDPE			Driscopipe		0.75"			45 psig			11/10/1987	Fitting	Riser

### Internation, acceler category, butter action, butter actions and the control of the control				FAILURE ANALYSIS SECTION			
Equipment Failure Domward Pressure Lyon Reducer Coupling 602		Description of Other Fitting Type (Mechanical, Electrofusion, Butt Fusion, Socket Fusion, Saddle Fusion, Solvent, Other Type		Expansion/Contraction, Excessive External Earth Loading, Installation Error, Previous Impact, Unknown, Unknown - not excavated - abandoned, Unknown - not excavated - replaced,	Excessive Expansion/Contraction, Excessive External Earth Loading, Installation Error, Previous Impact, Unknown, Unknown - not excavated - abandoned, Unknown - not excavated - replaced, Material Defect - describe, Other -		DATE OF FAILURE
44	42			Other (no description)	Other (no description)	Loose Tee Can	06/15/2020
444 Equipment Failure Gasket/O-Ring Leaking Sadel Tee 947 46 Equipment Failure Gasket/O-Ring Leaking Sadel Tee 947 46 Equipment Failure Gasket/O-Ring Missing O-Ring 050 64 64 74 Compression Equipment Failure Gasket/O-Ring Missing O-Ring 050 64 64 74 Compression Requipment Failure Gasket/O-Ring Loose Coupling 051 64 64 74 74 75 75 75 75 75 7				, , ,	, , ,	•	06/23/2020
Equipment Failure GasketO-Ring Leaking Saddle Tee 0.374				· ·	Downward Flessure		04/29/2020
Equipment Failure GasketO-Ring Missing O-Ring 050				· ·	Casket/O Ping		03/13/2020
47							05/08/2020
48		Compression		• •			05/06/2020
Equipment Failure Casket/C-Ring Buried Stop 0.971		·			Gasker/O-Ring		
		Tap Connection			On all at IO Direct	•	02/11/2020
				• •		Buried Stop	03/13/2020
							05/18/2020
53				•	Improper Backfilling		06/19/2020
S4				•			07/02/2020
Second				•	Third Party Damage		07/06/2020
Section							07/01/2020
S7					<u> </u>		07/11/2020
Second Forces Second Movement Ground Movement Ground Movement Ground Movement Second Forces Seco					•		07/11/2020
Equipment Failure							07/10/2020
							02/27/2018
61 Equipment Failure Gasket/O-Ring 06/1 62 Equipment Failure Gasket/O-Ring 02/1 63 Natural Forces/Ground Movement Cap Cracked 11/0 64 Equipment Failure Gasket/O-Ring 10/2 65 Equipment Failure Gasket/O-Ring 07/3 66 Natural Forces/Ground Movement Dirt Caving 07/3 67 Natural Forces/Ground Movement Ground Movement 07/3 68 Equipment Failure Gasket/O-Ring 01/1 69 Equipment Failure Gasket/O-Ring 04/2 70 Natural Forces Ground Movement 08/0 71 But Fusion Material, Weld or Joint Failure (including compression of Colf Fuse 08/0 72 Equipment Failure Gasket/O-Ring 03/0 73 Equipment Failure Gasket/O-Ring 03/0 74 Equipment Failure Gasket/O-Ring 03/0 75 Equipment Failure Gasket/O-Ring 03/2 76 Equipment Failu				• •			07/14/2020
62 Equipment Failure Gasket/O-Ring 02/1 63 Natural Forces/Ground Movement Cap Cracked 11/0 64 Equipment Failure Gasket/O-Ring 10/2 65 Equipment Failure Gasket/O-Ring 07/2 66 Natural Forces/Ground Movement Dirt Caving 07/3 67 Natural Forces/Ground Movement Ground Movement 07/3 68 Equipment Failure Gasket/O-Ring 01/1 69 Equipment Failure Gasket/O-Ring 04/2 70 Natural Forces Ground Movement 08/0 71 Butt Fusion Material, Weld or Joint Failure (including compression Cold Fuse 08/0 71 Butt Fusion Material, Weld or Joint Failure (including compression Cold Fuse 08/0 72 Equipment Failure Gasket/O-Ring 03/0 73 Equipment Failure Gasket/O-Ring 03/0 74 Equipment Failure Gasket/O-Ring 03/1 75 Equipment Failure Gasket/O-Ring 03/2							07/25/2020
Ratural Forces/Ground Movement Cap Cracked 11/0	61			Equipment Failure	•		06/16/2020
Equipment Failure Gasket/O-Ring 10/2	62			Equipment Failure	Gasket/O-Ring		02/15/2018
65 Equipment Failure Gasket/O-Ring 07/2 66 Natural Forces/Ground Movement Dirt Caving 07/3 67 Natural Forces/Ground Movement Ground Movement 07/3 68 Equipment Failure Gasket/O-Ring 01/1 69 Equipment Failure Gasket/O-Ring 04/2 70 Natural Forces Ground Movement 08/0 71 Butt Fusion Material, Weld or Joint Failure (including compression of Cold Fuse 08/0 72 Equipment Failure Gasket/O-Ring 03/0 73 Equipment Failure Gasket/O-Ring 03/0 74 Equipment Failure Gasket/O-Ring 03/1 75 Equipment Failure Gasket/O-Ring 03/2 76 Incorrect Operations Other/Bang Bar Damage 08/0 77 Equipment Failure Gasket/O-Ring 08/0 78 Equipment Failure Gasket/O-Ring 09/1 79 Equipment Failure Gasket/O-Ring 09/1 80 Saddle	63			Natural Forces/Ground Movement	Cap Cracked		11/06/2018
66 Natural Forces/Ground Movement Dirt Caving 07/3 67 Natural Forces/Ground Movement Ground Movement 07/3 68 Equipment Failure Gasket/O-Ring 01/1 69 Equipment Failure Gasket/O-Ring 04/2 70 Natural Forces Ground Movement 08/0 71 Butt Fusion Material, Weld or Joint Failure (including compression of Cold Fuse 08/0 72 Equipment Failure Gasket/O-Ring 03/0 73 Equipment Failure Gasket/O-Ring 03/0 74 Equipment Failure Gasket/O-Ring 03/1 75 Equipment Failure Gasket/O-Ring 03/2 76 Incorrect Operations Other/Bang Bar Damage 08/0 77 Equipment Failure Leaking Amp Fit Saddle 04/2 78 Equipment Failure Gasket/O-Ring 09/1 79 Equipment Failure Gasket/O-Ring 05/0 80 Saddle Natural Forces Ground Movement 11/0 81	64			Equipment Failure			10/29/2018
Natural Forces/Ground Movement Ground Movement 07/3	65			Equipment Failure	Gasket/O-Ring		07/24/2020
68 Equipment Failure Gasket/O-Ring 01/1 69 Equipment Failure Gasket/O-Ring 04/2 70 Natural Forces Ground Movement 08/0 71 Butt Fusion Material, Weld or Joint Failure (including compression of Cold Fuse 08/0 72 Equipment Failure Gasket/O-Ring 03/0 73 Equipment Failure Gasket/O-Ring 03/0 74 Equipment Failure Gasket/O-Ring 03/1 75 Equipment Failure Gasket/O-Ring 03/2 76 Incorrect Operations Other/Bang Bar Damage 08/0 77 Equipment Failure Leaking Amp Fit Saddle 04/2 78 Equipment Failure Gasket/O-Ring 09/1 79 Equipment Failure Gasket/O-Ring 09/1 80 Saddle Natural Forces Ground Movement 11/0 81 Natural Forces Ground Movement 12/2	66			Natural Forces/Ground Movement	Dirt Caving		07/30/2020
69 Equipment Failure Gasket/O-Ring 04/2 70 Natural Forces Ground Movement 08/0 71 Butt Fusion Material, Weld or Joint Failure (including compression of Cold Fuse 08/0 72 Equipment Failure Gasket/O-Ring 03/0 73 Equipment Failure Gasket/O-Ring 03/0 74 Equipment Failure Gasket/O-Ring 03/1 75 Equipment Failure Gasket/O-Ring 03/2 76 Incorrect Operations Other/Bang Bar Damage 08/0 77 Equipment Failure Leaking Amp Fit Saddle 04/2 78 Equipment Failure Gasket/O-Ring 09/1 79 Equipment Failure Gasket/O-Ring 05/0 80 Saddle Natural Forces Ground Movement 11/0 81 Natural Forces Ground Movement 12/2	67			Natural Forces/Ground Movement	Ground Movement		07/30/2020
Natural Forces Ground Movement 08/0	68			Equipment Failure	Gasket/O-Ring		01/10/2019
70 Natural Forces Ground Movement 08/0 71 Butt Fusion Material, Weld or Joint Failure (including compression of Cold Fuse) 08/0 72 Equipment Failure Gasket/O-Ring 03/0 73 Equipment Failure Gasket/O-Ring 03/1 74 Equipment Failure Gasket/O-Ring 03/1 75 Equipment Failure Gasket/O-Ring 03/2 76 Incorrect Operations Other/Bang Bar Damage 08/0 77 Equipment Failure Leaking Amp Fit Saddle 04/2 78 Equipment Failure Gasket/O-Ring 09/1 79 Equipment Failure Gasket/O-Ring 09/1 80 Saddle Natural Forces Ground Movement 11/0 81 Natural Forces Ground Movement 12/2	69			Equipment Failure	Gasket/O-Ring		04/23/2020
71 Butt Fusion Material, Weld or Joint Failure (including compression of Cold Fuse) Cold Fuse 08/0 72 Equipment Failure Gasket/O-Ring 03/0 73 Equipment Failure Gasket/O-Ring 03/0 74 Equipment Failure Gasket/O-Ring 03/1 75 Equipment Failure Gasket/O-Ring 03/2 76 Incorrect Operations Other/Bang Bar Damage 08/0 77 Equipment Failure Leaking Amp Fit Saddle 04/2 78 Equipment Failure Gasket/O-Ring 09/1 79 Equipment Failure Gasket/O-Ring 05/0 80 Saddle Natural Forces Ground Movement 11/0 81 Natural Forces Ground Movement 12/2	70			Natural Forces	Ground Movement		08/04/2020
72 Equipment Failure Gasket/O-Ring 03/0 73 Equipment Failure Gasket/O-Ring 03/0 74 Equipment Failure Gasket/O-Ring 03/1 75 Equipment Failure Gasket/O-Ring 03/2 76 Incorrect Operations Other/Bang Bar Damage 08/0 77 Equipment Failure Leaking Amp Fit Saddle 04/2 78 Equipment Failure Gasket/O-Ring 09/1 79 Equipment Failure Gasket/O-Ring 05/0 80 Saddle Natural Forces Ground Movement 11/0 81 Natural Forces Ground Movement 12/2		Butt Fusion		Material, Weld or Joint Failure (including compression	Cold Fuse		08/04/2020
73 Equipment Failure Gasket/O-Ring 03/0 74 Equipment Failure Gasket/O-Ring 03/1 75 Equipment Failure Gasket/O-Ring 03/2 76 Incorrect Operations Other/Bang Bar Damage 08/0 77 Equipment Failure Leaking Amp Fit Saddle 04/2 78 Equipment Failure Gasket/O-Ring 09/1 79 Equipment Failure Gasket/O-Ring 05/0 80 Saddle Natural Forces Ground Movement 11/0 81 Natural Forces Ground Movement 12/2				Equipment Failure	Gasket/O-Ring		03/06/2020
74 Equipment Failure Gasket/O-Ring 03/1 75 Equipment Failure Gasket/O-Ring 03/2 76 Incorrect Operations Other/Bang Bar Damage 08/0 77 Equipment Failure Leaking Amp Fit Saddle 04/2 78 Equipment Failure Gasket/O-Ring 09/1 79 Equipment Failure Gasket/O-Ring 05/0 80 Saddle Natural Forces Ground Movement 11/0 81 Natural Forces Ground Movement 12/2							03/06/2020
75 Equipment Failure Gasket/O-Ring 03/2 76 Incorrect Operations Other/Bang Bar Damage 08/0 77 Equipment Failure Leaking Amp Fit Saddle 04/2 78 Equipment Failure Gasket/O-Ring 09/1 79 Equipment Failure Gasket/O-Ring 05/0 80 Saddle Natural Forces Ground Movement 11/0 81 Natural Forces Ground Movement 12/2				· ·			03/12/2020
76Incorrect OperationsOther/Bang Bar Damage08/077Equipment FailureLeaking Amp Fit Saddle04/278Equipment FailureGasket/O-Ring09/179Equipment FailureGasket/O-Ring05/080 SaddleNatural ForcesGround Movement11/081Natural ForcesGround Movement12/2							03/23/2020
77Equipment FailureLeaking Amp Fit Saddle04/278Equipment FailureGasket/O-Ring09/179Equipment FailureGasket/O-Ring05/080 SaddleNatural ForcesGround Movement11/081Natural ForcesGround Movement12/2				• •			08/08/2020
78 Equipment Failure Gasket/O-Ring 09/1 79 Equipment Failure Gasket/O-Ring 05/0 80 Saddle Natural Forces Ground Movement 11/0 81 Natural Forces Ground Movement 12/2				•			04/20/2018
79Equipment FailureGasket/O-Ring05/080 SaddleNatural ForcesGround Movement11/081Natural ForcesGround Movement12/2				• •			09/10/2018
80 SaddleNatural ForcesGround Movement11/081Natural ForcesGround Movement12/2				• •			05/07/2019
81 Natural Forces Ground Movement 12/2		Saddle					11/09/2018
						+	12/20/2018
I &ZIADD S200B I FUIDMENT FAILURE ILEQCKAT/D⊒RINA I 11/0		Amp Saddle		Equipment Failure	Gasket/O-Ring	+	11/07/2018
		•				+	06/08/2020

	MATERIALS SECTION					INSTALLATION AND OPERATIONS SECTION								
Line No.	Reporting Date	TYPE OF MATERIAL	(DESCRIBE IF OTHER)	MANUFACTURER	SDR,DR, SCHEDULE or WALL THICKNESS	NOMINAL SIZE	METHOD OF INSTALLATION (Open Trench, Bored, Plowed In, Insertion, Joint Trench, Planted, Unknown, Other - describe, Direct Bury)	TYPE OF SOIL IN CONTACT WITH PIPE (Sand, Loam, Clay, Rocky, Slurry, Other - describe)	OPERATING PRESSURE AT TIME OF FAILURE (psig)	OPERATING PRESSURE NORMAL RANGE MINIMUM (if known) (psig)	OPERATING PRESSURE NORMAL RANGE MAXIMUM (if known) (psig)	DATE OF INSTALLATION	FAILURE LOCATION (Pipe, Fitting or Joint)	FAILURE IN FITTING (Transition, Valve, Meter Riser, Mechanical Fitting, Heat Fusion Fitting, Electrofusion Fitting, Other describe)
84	Sep-20 I	MDPE2406		Driscopipe		0.75"		Clay	45 psig			03/28/1979	Fitting	Riser
85		MDPE2406		Driscopipe		0.75"			45 psig			10/25/1979	Fitting	Riser
86		MDPE2406		Driscopipe		0.75"			25 psig			12/21/1978	Fitting	Riser
87		MD OTHER		Driscopipe		0.75"			12 psig			N/A	Pipe	
88		MD OTHER		Driscopipe		0.75"			12 psig			N/A	Pipe	
89		HDPE2306		Performance Pipe		1.25"			18 psig			12/05/2017	Fitting	Tap Connection
90		MDPE2406		Driscopipe		0.75"			45 psig			11/12/1976	Fitting	Riser
91		HD OTHER		Driscopipe		2.0"			45 psig			06/20/1988	Fitting	Tap Connection
92		HDPE2306		Driscopipe		2.0"			35 psig			N/A	Pipe	T SIP C STATE SECTION
93		MD OTHER		Driscopipe		0.75"			58 psig			11/18/1972	Pipe	
94		MDPE2406		Performance Pipe		1.0"			14 psig			12/14/2017	Fitting	Tap Connection
95		HDPE3406		Plexco		2.0"			45 psig			N/A	Fitting	Сар
96		MDPE2406		Driscopipe		6.0"			45 psig			N/A	Fitting	Valve Stem
97		MD OTHER		Other		0.75"			58 psig			N/A	Fitting	Riser
98		MD OTHER		Driscopipe		2.0"			13 psig			N/A	Pipe	
99		HDPE3406		Driscopipe		2.0"			15 psig			09/04/1981	Fitting	Saddle
100		MDPE2406		Driscopipe		0.75"			2.25 psig			10/03/2013	Fitting	Tap Connection
101		HDPE2306		Other		1.0"			32 psig			08/03/1979	Fitting	Tap Connection
102		HDPE3406		Other		4.0"			45 psig			N/A	Fitting	Poly Valve
103		HDPE2306		Driscopipe		0.75"			40 psig			N/A	Fitting	Tap Connection
104	Oct-20			Other		2.0"			4 psig			10/28/2014	Pipe	,
105		MDPE2406		Other		1.0"			25 psig			01/01/1965	Fitting	Tap Connection
106		MDPE2406		Driscopipe		2.0"			50 psig			N/A	Fitting	Tap Connection
107		MDPE2406		Performance Pipe		0.75"			14 oz			11/27/2012	Pipe	,
108		MDPE2406		Polypipe		0.75"			17.5 psig			05/21/2013	Fitting	Tap Connection
109		MDPE2406		Driscopipe		0.75"			30 psig			10/02/2000	Pipe	
110		MDPE2406		Other		0.75"			45 psig			10/15/2009	Fitting	Compression Coupling

Line No.	FAILURE ANALYSIS SECTION				
	Description of Other Fitting Type FAILURE IN JOINT (Mechanical, Electrofusion, I Butt Fusion, Socket Fusion, Saddle Fusion, Solvent, Other describe)	Description of Other Joint Type	FAILURE CAUSE (Squeeze Off, Point Loading, Excessive Expansion/Contraction, Excessive External Earth Loading, Installation Error, Previous Impact, Unknown, Unknown - not excavated - abandoned, Unknown - not excavated - replaced, Material Defect - describe, Other - describe)	ADDITIONAL FAILURE CAUSE (Squeeze Off, Point Loading, Excessive Expansion/Contraction, Excessive External Earth Loading, Installation Error, Previous Impact, Unknown, Unknown - not excavated - abandoned, Unknown - not excavated - replaced, Material Defect - describe, Other - describe)	DATE OF FAILURE
84	Stop		Equipment Failure	Gasket/O-Ring	05/07/2020
	Stop		Equipment Failure	Gasket/O-Ring	12/16/2019
	Stop		Equipment Failure	Gasket/O-Ring	05/05/2020
87	Otop		Natural Forces	Ground Movement	08/21/2020
88			Natural Forces	Ground Movement	09/14/2020
	Сар		Incorrect Operations	Loose Cap	12/12/2018
	Stop		Equipment Failure	Gasket/O-Ring	09/30/2019
	Cap		Equipment Failure	Gasket/O-Ring	09/01/2020
92	ОССР		Equipment Failure	Leaking Saddle	09/14/2020
93			Natural Forces	Ground Movement	06/16/2019
	Compression Coupling		Equipment Failure	Jam Nut	09/18/2020
95	Certificación Coupinig		Equipment Failure	Gasket/O-Ring	07/08/2020
96			Equipment Failure	Gasket/O-Ring	04/10/2020
97			Equipment Failure	Gasket/O-Ring	10/02/2020
98			Natural Forces	Ground Movement	12/20/2019
99			Equipment Failure	Gasket/O-Ring	05/09/2018
	Plug Cap		Loose Cap	Not Specified	08/24/2020
101			Equipment Failure	Gasket/O-Ring	07/16/2019
102			Equipment Failure	Equipment Malfunction	09/22/2020
103			Equipment Failure	Equipment Malfunction	09/21/2020
104			Material, Weld or Joint Failure	Wrinkle Bend	10/12/2020
105			Material, Weld or Joint Failure	Fusion Defect (Plastic)	10/12/2020
106			Equipment Failure	Gasket/O-Ring	10/10/2020
107			Natural Forces	Ground Movement	10/14/2020
108			Incorrect Operations	Improper Backfilling	10/10/2020
109			Material, Weld or Joint Failure	Wrinkle Bend	10/20/2020
110			Equipment Failure	Pipe Pulled Out of Metfit	10/20/2020

CERTIFICATE OF SERVICE

I, Judy Jenkins Hitchye, hereby certify that a copy of the above and foregoing *Compliance Filing* was forwarded this 31st day of March, 2021, addressed to:

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