

February 15, 2023

Delivered via Trackable Overnight Delivery

Mr. Jeffery E. Mendenhall
South Carolina Department of Health and Environmental Control
Assessment Section, UST Management Division
Bureau of Land and Waste Management
2600 Bull Street
Columbia, South Carolina 29201

**Subject: Well Abandonment Summary
Products (SE) Pipe Line Corporation
Lewis Drive Remediation Site
Belton, South Carolina
Site ID #18693, "Kinder Morgan Belton Pipeline Release"**

RECEIVED
FEB 16 2023
UST DIVISION



Dear Mr. Mendenhall,

On behalf of Products (SE) Pipe Line Corporation (PPL), Jacobs Engineering Group Inc. (Jacobs) has prepared this summary of well abandonment activities that were conducted according to the October 3, 2022 letter request submitted to the South Carolina Department of Health and Environmental Control (DHEC), and approved by DHEC in a letter dated October 12, 2022. Wells proposed to be abandoned in the October 3, 2022 letter are listed in **Table 1**.

On January 16, 2023, Jacobs and IET, Inc. completed the following work:

- Abandoned eight temporary monitoring wells (TW-28, TW-41, TW-42, TW-45, TW-59, TW-60, TW-73, and TW-96) per Official Code of South Carolina Section R.61-71. Once all possible well casing/screen was removed, abandonment was completed by a forced injection or pouring of grout (bentonite-cement or 20% high solids sodium bentonite grout) through a tremie pipe starting from the bottom of the well and proceeding to the ground surface.
- Abandoned two vertical bedrock sparging (VBS-02 and VBS-03) wells per Official Code of South Carolina Section R.61-71. Prior to abandonment, the conduit piping from the sparge system was sealed off with a PVC cap. Once all possible well casing/screen was removed, abandonment was completed by a forced injection or pouring of grout (bentonite-cement or 20% high solids sodium bentonite grout) through a tremie pipe starting from the bottom of the well and proceeding to the ground surface. Access to the conduit pipe remains.

13 TWs were to be abandoned however five could not be properly abandoned. TW-55, TW-64, TW-67, and TW-94 could not be located visually or with the use of a metal detector. TW-66 was under high pressure from HAS-5 air sparging operations and abandonment at this time was not possible. Three (3) VBS wells were to be abandoned however one VBS well (VBS-01) could not be abandoned at this time. This well was inaccessible due to groundwater levels in the area greater than ground surface. Abandoned wells are shown on **Figure 1** and identified in grayed-out text in **Table 2**.

Jacobs

February 15, 2023

Subject: Well Abandonment Summary

DHEC Form 1903 Water Well Records for abandoned wells are provided in **Attachment A**.

If you have any questions concerning this letter or the project in general, please call me at (919) 859-5789 or Greg Dempsey/PPL at (770) 751-4143.

Regards,



William M. Waldron
Program Manager

Copies to: Greg Dempsey, PPL (Digital, greg_dempsey@kindermorgan.com)
Mary Clair Lyons, Esq., PPL (Digital, Mary_Lyons@kindermorgan.com)

Attachments:

Table 1 – Proposed Well Abandonment
Table 2 – Well Construction Information
Figure 1 – Well Abandonment Summary
Attachment A – DHEC Form 1903 Water Well Records

Table 1. Proposed Well Abandonment
 Lewis Drive Release, Belton, South Carolina
 Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location		Date	Northing	Easting	Well	Screen	Depth to	Rationale for Abandonment
ID	Permit Number	Installed			Depth	Length	Water ^{1,2}	
			(ft bgs)	(ft)	(ft BTOC)			
TW-28	MW-09978	1/23/2015	989942.465	1546422.102	28	20.00	20.50	
TW-41	MW-09978	1/25/2015	990103.995	1546618.210	34	25.00	24.40	
TW-42	MW-09978	1/25/2015	990103.575	1546717.088	29.5	20.00	23.76	
TW-45	MW-09978	1/25/2015	990080.591	1546743.717	37.5	25.00	24.91	
TW-55	MW-10006	2/5/2015	990053.932	1545917.961	43	30.00	0.00	
TW-59	MW-09978	1/30/2015	989944.219	1546921.479	22	15.00	13.36	
TW-60	MW-09978	1/30/2015	990083.712	1546872.885	41.5	35.00	8.86	Current monitoring network of 2-inch wells is sufficient
TW-64	MW-09978	2/2/2015	990216.834	1546232.195	55	50.00	15.56	
TW-66	MW-09978	2/2/2015	990022.631	1546965.321	24	20.00	1.46	
TW-67	MW-09978	2/3/2015	989486.393	1545910.298	27	20.00	9.19	
TW-73	MW-09978	2/3/2015	989429.600	1546151.905	16	10.00	4.77	
TW-94	MW-10006	2/10/2015	990313.883	1545885.290	40	35.00	0.00	
TW-96	MW-10006	2/11/2015	990369.269	1545983.540	30	25.00	0.00	
VBS-01	SCHE03020469M	1/28/2017	989781.402	1546279.088	38.50	2.00	19.63	
VBS-02	SCHE03020469M	1/28/2017	989733.146	1546223.970	31.00	2.00	6.75	Insufficient fracture aperture/density to permit air flow
VBS-03	SCHE03020469M	1/27/2017	989668.841	1546148.569	36.20	2.00	9.81	

Notes:

¹ TW water depth measurements collected on July 11, 2018

² VBS water depth measurements collected on October 6, 2020

bgs = below ground surface

BTOC = below top of casing

ft = feet

NM = not measured

TW = temporary well

Table 2. Well Construction Information
Products (SE) Pipe Line Corporation
Lewis Drive Remediation Site, Belton, South Carolina
Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Installation Method	Permit #	Date Installed	Date Abandoned	Purpose	Ground Surface Elevation (ft amsl)	TOC Elevation (ft amsl)	Measured Depth to Bottom (ft BTOC)	Bore Hole Diameter (In)	Well Dia (In)	Well Depth (ft bgs)	Bottom of Well (ft amsl)	Top of Screen or Open Borehole Interval (ft BTOC)	Bottom of Screen or Open Borehole Interval (ft BTOC)	Top of Screen or Open Borehole Interval (ft bgs)	Bottom of Screen or Open Borehole Interval (ft bgs)	Top of Screen or Open Borehole Interval (ft amsl)	Bottom of Screen or Open Borehole Interval (ft amsl)	Length of Screen or Open Borehole Interval (ft)
Piezometers																			
TW-01	DPT	MW-09921	12/11/2014	12/22/2014	Gauging	853.87	853.87	6.85	2.2	1	7.2	846.7	1.85	6.85	2.2	7.2	851.7	846.7	5
TW-02	DPT	MW-09921	12/11/2014	12/22/2014	Gauging	854.54	854.54	14.09	2.2	1	14	840.5	9.09	14.09	9.0	14.1	845.5	840.4	5
TW-03	DPT	MW-09921	12/12/2014	12/22/2014	Gauging	855.68	855.67	12.00	2.2	1	11.7	844.0	7.00	12.00	6.7	12.0	849.0	843.7	5
TW-04	DPT	MW-09921	12/12/2014	12/22/2014	Gauging	852.77	852.77	5.15	2.2	1	5.5	847.3	2.15	5.15	2.5	5.1	850.3	847.6	3
TW-04R	DPT	MW-10006	2/4/2015	8/30/2018	Gauging	852.68	852.64	5.5	2.2	1.0	5.5	847	2.46	5.46	2.5	5.5	850.2	847.2	3
TW-05	DPT	MW-09921	12/12/2014	12/22/2014	Gauging	849.94	849.94	9.00	2.2	1	9.3	840.6	6.00	9.00	6.3	9.0	843.6	840.9	3
TW-05R	DPT	MW-10006	2/4/2015	8/30/2018	Gauging	849.96	849.93	8.9	2.2	1.0	8.8	841	5.87	8.87	5.8	8.9	844.2	841.1	3
TW-06	DPT	MW-09921	12/12/2014	12/22/2014	Gauging	848.08	848.08	15.00	2.2	1	15	833.1	5.00	15.00	5.0	15.0	843.1	833.1	10
TW-07	DPT	MW-09921	12/12/2014	12/22/2014	Gauging	845.58	845.59	18.83	2.2	1	20	825.6	8.83	18.83	10.0	18.8	835.6	826.8	10
TW-08	DPT	MW-09921	12/12/2014	12/22/2014	Gauging	847.51	847.51	19.98	2.2	1	21	826.5	9.98	19.98	11.0	20.0	836.5	827.5	10
TW-09	DPT	MW-09921	12/12/2014	12/22/2014	Gauging	842.76	842.76	19.75	2.2	1	19	823.8	4.75	19.75	4.0	19.8	838.8	823.0	15
TW-10	DPT	MW-09921	12/12/2014	12/22/2014	Gauging	844.13	844.14	24.10	2.2	1	25	819.1	9.10	24.10	10.0	24.1	834.1	820.0	15
TW-11	DPT	MW-09921	12/19/2014	12/22/2014	Gauging	853.74	853.96	14.97	2.2	1	15	838.7	11.97	14.97	12.0	14.7	841.7	839.0	3
TW-12	DPT	MW-09921	12/19/2014	12/22/2014	Gauging	855.29	855.47	8.15	2.2	1	8	847.3	3.15	8.15	3.0	8.0	852.3	847.3	5
TW-13	DPT	MW-09921	12/19/2014	12/22/2014	Gauging	853.99	854.07	10.00	2.2	1	10	844.0	5.00	10.00	5.0	9.9	849.0	844.1	5
TW-14	DPT	MW-09921	12/19/2014	12/22/2014	Gauging	853.46	853.60	5.95	2.2	1	6.5	847.0	1.95	5.95	2.5	5.8	851.0	847.7	4
TW-14R	DPT	MW-10006	2/4/2015	8/30/2018	Gauging	853.47	853.37	6.2	2.2	1.0	6.5	847	2.2	6.2	2.5	6.3	851.0	847.2	4
TW-15	DPT	MW-09921	12/19/2014	12/22/2014	Gauging	850.67	850.78	5.64	2.2	1	5	845.7	1.64	5.64	1.0	5.5	849.7	845.1	4
TW-15R	DPT	MW-10006	2/4/2015	8/30/2018	Gauging	850.6988	850.6175	4.85	2.2	1	5	845.7	0.85	4.85	1.0	4.9	849.7	845.8	4
TW-16	DPT	MW-09921	12/19/2014	12/22/2014	Gauging	847.03	847.17	22.50	2.2	1	23	824.0	12.50	22.50	13.0	22.4	834.0	824.7	10
TW-17	DPT	MW-09921	12/19/2014	12/22/2014	Gauging	845.12	845.31	20.98	2.2	1	25	820.1	10.98	20.98	15.0	20.8	830.1	824.3	10
TW-18	DPT	MW-09921	12/19/2014	12/22/2014	Gauging	839.22	839.42	20.21	2.2	1	20.5	818.7	10.21	20.21	10.5	20.0	828.7	819.2	10
TW-19	DPT	MW-09921	12/19/2014	12/22/2014	Gauging	844.48	844.64	21.15	2.2	1	21	823.5	11.15	21.15	11.0	21.0	833.5	823.5	10
TW-20	DPT	MW-09921	12/19/2014	12/22/2014	Gauging	852.45	852.55	22.30	2.2	1	22.7	829.7	12.30	22.30	12.7	22.2	839.7	830.2	10
TW-21	DPT	MW-09978	1/22/2015	8/30/2018	Gauging	849.72	849.70	9.5	2.2	1.0	14.0	836	-0.46	9.54	4.0	9.6	845.7	840.2	10
TW-22	DPT	MW-09978	1/22/2015	10/19/2015	Gauging	850.85	851.79	10.92	2.2	1	10	840.8	5.92	10.92	5.0	10.0	845.8	840.9	5
TW-23	DPT	MW-09978	1/22/2015	10/19/2015	Gauging	851.40	852.91	14.72	2.2	1	14	837.4	4.72	14.72	4.0	13.2	847.4	838.2	10
TW-24	DPT	MW-09978	1/22/2015	10/19/2015	Gauging	852.44	854.13	17.41	2.2	1	16	836.4	12.41	17.41	11.0	15.7	841.4	836.7	5
TW-25	DPT	MW-09978	1/22/2015	10/19/2015	Gauging	849.83	851.92	10.25	2.2	1	8	841.8	5.25	10.25	3.0	8.2	846.8	841.7	5
TW-26	DPT	MW-09978	1/22/2015	1/28/2015	Gauging	849.55	850.30	12.57	2.2	1	11.00	838.6	7.57	12.57	6.0	11.8	843.6	837.7	5
TW-27	DPT	MW-09978	1/22/2015	1/29/2015	Gauging	850.09	851.93	31.30	2.2	1	31.00	819.1	11.30	31.30	11.0	29.5	839.1	820.6	20
TW-28	DPT	MW-09978	4/20/2015	1/16/2023	Gauging	851.6	851	31.84	2.2	1	30.00	821.6	11.84	31.84	10.0	32.0	841.6	819.6	20
TW-29	DPT	MW-09978	1/23/2015	1/29/2015	Gauging	850.22	851.85	24.68	2.2	1	23.00	827.2	9.68	24.68	8.0	23.1	842.2	827.2	15
TW-30	DPT	MW-09978	1/23/2015	8/30/2018	Gauging	851.86	851.81	23.2	2.2	1.0	24.0	828	8.15	23.15	9	23.2007	842.9	828.7	15
TW-31	DPT	MW-09978	1/23/2015	10/19/2015	Gauging	854.28	856.07	20.04	2.2	1	16	838.3	10.04	20.04	6.0	18.3	848.3	836.0	10
TW-32	DPT	MW-09978	1/23/2015	10/19/2015	Gauging	854.54	856.19	30.05	2.2	1	26.5	828.0	10.05	30.05	6.5	28.4	848.0	826.1	20
TW-33	DPT	MW-09978	1/24/2015	10/19/2015	Gauging	852.90	854.48	23.03	2.2	1	21	831.9	8.03	23.03	6.0	21.5	846.9	831.4	15
TW-34	DPT	MW-09978	1/24/2015	8/30/2018	Gauging	854.92	854.79	25.0	2.2	1.0	23.0	832	10.04	25.04	8	25.1743	846.9	829.7	15
TW-35	DPT	MW-09978	1/24/2015	8/30/2018	Gauging	854.22	854.10	25.1	2.2	1.0	23.0	831	10.12	25.12	8	25.2379	846.2	829.0	15
TW-36	DPT	MW-09978	1/24/2015	10/19/2015	Gauging	853.09	854.60	28.02	2.2	1	26	827.1	8.02	28.02	6.0	26.5	847.1	826.6	20
TW-37	DPT	MW-09978	1/24/2015	1/30/2015	Gauging	851.90	853.42	33.08	2.2	1	32.50	819.4	8.08	33.08	7.5	31.6	844.4	820.3	25
TW-38	DPT	MW-09978	1/24/2015	10/19/2015	Gauging	854.12	855.65	17.81	2.2	1	16	838.1	-7.19	17.81	-9.0	16.3	863.1	837.8	25
TW-39	DPT	MW-09978	1/24/2015	1/30/2015	Gauging	851.11	852.82	37.91	2.2	1	37.00	814.1	12.91	37.91	12.0	36.2	839.1	814.9	25
TW-40	DPT	MW-09978	1/24/2015	8/30/2018	Gauging	853.45	853.35	34.1	2.2	1.0	33.0	820	9.05	34.05	8	34.1517	845.5	819.3	25
TW-41	DPT	MW-09978	4/20/2015	1/16/2023	Gauging	849.4	849	32.15	2.2	1	34.00	815.4	7.15	32.15	9.0	32.1	840.4	817.2	25
TW-42	DPT	MW-09978	4/20/2015	1/16/2023	Gauging	847.02	846.84	27.5	2.2	1	29.50	817.5	2.5	27.5	4.5	27.7	842.5	819.3	25
TW-43	DPT	MW-09978	1/25/2015	10/19/2015	Gauging	845.62	847.83	46.84	2.2	1	40	805.6	21.84	46.84	15.0	44.6	830.6	801.0	25
TW-44	DPT	MW-09978	1/25/2015	10/20/2015	Gauging	847.64	850.52	21.60	2.2	1	18	829.6	-3.40	21.60	-7.0	18.7	854.6	828.9	25
TW-45	DPT	MW-09978	1/25/2015	1/16/2023	Gauging	848.26	848.31	36.9	2.2	1	37.5	810.8	11.9	36.9	12.5	36.8	835.8	811.4	25
TW-46	DPT	MW-09978	1/26/2015	9/13/2017	Gauging	846.89	846.88	33.44	2.2	1	32	814.9	8.44	33.44	7.0	33.4	839.9	813.4	25
TW-47	DPT	MW-09978	1/26/2015	10/19/2015	Gauging	854.07	856.26	29.81	2.2	1	27	827.1	4.81	29.81	2.0	27.6	852.1	826.4	25
TW-48	DPT	MW-09978	1/26/2015	1/30/2015	Gauging	844.18	846.23	39.22	2.2	1	39.00	805.2	14.22	39.22	14.0	37.2	830.2	807.0	25
TW-49	DPT	MW-09978	1/27/2015	2/2/2015	Gauging	833.32	835.57	25.50	2.2	1	27.00	806.3	5.50	25.50	7.0	23.3	826.3	810.1	20
TW-50	DPT	MW-09978	1/27/2015	10/20/2015	Gauging	833.42	835.30	24.31	2.2	1	23	810.4	4.31	24.31	3.0	22.4	830.4	811.0	20
TW-51	DPT	MW-09978	1/27/2015	10/20/2015	Gauging	843.44	844.86	34.59	2.2	1	34	809.4	9.59	34.59	9.0	33.2	834.4	810.3	25
TW-52	DPT	MW-09978	1/28/2015	2/6/2015	Gauging	825.89	828.33	23.58	2.2	1	27.00	798.9	3.58	23.58	7.0	21.1	818.9	804.7	20
TW-53	DPT	MW-09978	1/29/2015	2/3/2015	Gauging	NS	NS	45.20	2.7	1	43.00	NS	5.20	45.20	3.0	43.0	NS	NS	40

Table 2. Well Construction Information
Products (SE) Pipe Line Corporation
Lewis Drive Remediation Site, Belton, South Carolina
Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Installation Method	Permit #	Date Installed	Date Abandoned	Purpose	Ground Surface Elevation (ft amsl)	TOC Elevation (ft amsl)	Measured Depth to Bottom (ft BTOC)	Bore Hole Diameter (in)	Well Dia (in)	Well Depth (ft bgs)	Bottom of Well (ft amsl)	Top of Screen or Open Borehole Interval (ft BTOC)	Bottom of Screen or Open Borehole Interval (ft BTOC)	Top of Screen or Open Borehole Interval (ft bgs)	Bottom of Screen or Open Borehole Interval (ft bgs)	Top of Screen or Open Borehole Interval (ft amsl)	Bottom of Screen or Open Borehole Interval (ft amsl)	Length of Screen or Open Borehole Interval (ft)
TW-54	DPT	MW-10006	2/4/2015	10/19/2015	Gauging	844.08	845.05	59.26	2.7	1	59	785.1	9.26	59.26	9.0	58.3	835.1	785.8	50
TW-55	DPT	MW-10006	2/5/2015	Still in use	Gauging	846.00	845.93	41.50	2.7	1	43	803.0	11.50	41.50	13.0	41.6	833.0	804.4	30.00
TW-56	DPT	MW-09978	1/29/2015	10/20/2015	Gauging	844.16	846.91	20.23	2.2	1	17	827.2	10.23	20.23	7.0	17.5	837.2	826.7	10
TW-57	DPT	MW-09978	1/29/2015	2/2/2015	Gauging	NS	NS	40.22	2.2	1	39.80	NS	5.22	40.22	4.8	39.8	NS	NS	35
TW-58	DPT	MW-09978	1/30/2015	10/20/2015	Gauging	832.27	834.78	20.00	2.7	1	20	812.3	5.00	20.00	5.0	17.5	827.3	814.8	15
TW-59	DPT	MW-09978	1/30/2015	1/16/2023	Gauging	834.84	834.78	21.2	2.7	1	22	812.8	6.2	21.2	7.0	21.2	827.8	813.6	15
TW-60	DPT	MW-09978	1/30/2015	1/16/2023	Gauging	828.00	828.03	37.2	2.7	1	41.5	786.5	22.2	37.2	26.5	37.2	801.5	790.8	15
TW-61	DPT	MW-09978	2/2/2015	10/20/2015	Gauging	846.08	847.50	10.25	2.2	1	9	837.1	5.25	10.25	4.0	8.8	842.1	837.3	5
TW-62	DPT	MW-09978	2/2/2015	10/19/2015	Gauging	850.87	851.45	40.40	2.2	1	35	815.9	10.40	40.40	5.0	39.8	845.9	811.0	30
TW-63	DPT	MW-09978	2/2/2015	10/20/2015	Gauging	822.86	826.39	41.30	2.7	1	42	780.9	1.30	41.30	2.0	37.8	820.9	785.1	40
TW-64	DPT	MW-09978	2/2/2015	Still in use	Gauging	845.89	845.88	52.85	2.2	1	55	790.9	2.85	52.85	5.0	52.9	840.9	793.0	50.00
TW-65	DPT	MW-09978	2/2/2015	8/30/2018	Gauging	845.66	845.62	44.8	2.2	1.0	44.5	801	9.81	44.81	9.5	44.8	836.1593	800.8114	35
TW-66	DPT	MW-09978	2/2/2015	Still in use	Gauging	820.18	820.31	23.8	2.7	1.0	24.0	796.18	3.81	23.81	4	23.6801	816.1789	796.4988	20
TW-67	DPT	MW-09978	2/3/2015	Still in use	Gauging	852.88	852.71	26.47	2.7	1	27	825.9	6.47	26.47	7.0	26.6	845.9	826.2	20.00
TW-68	DPT	MW-09978	2/3/2015	8/30/2018	Gauging	846.5936	846.4545	29.96	2.2	1	27	819.6	9.96	29.96	7	30.1	839.5936	816.4945	20
TW-69	DPT	MW-09978	2/3/2015	8/30/2018	Gauging	840.38	840.27	51.9	2.2	1.0	50.0	790	11.91	51.91	10	52.0231	830.3829	788.3598	40
TW-70	DPT	MW-09978	2/3/2015	8/30/2018	Gauging	842.0748	841.9539	45.05	2.2	1	43	799.0748	10.05	45.05	8	45.1709	834.0748	796.9039	35
TW-71	DPT	MW-09978	2/3/2015	2/5/2015	Gauging	NS	NS	17.39	2.7	1	14.00	NS	7.39	17.39	4.0	14.0	NS	NS	10
TW-72	DPT	MW-09978	2/3/2015	10/20/2015	Gauging	850.21	851.48	6.51	2.7	1	9.00	841.2	1.51	6.51	4.0	5.2	846.2	845.0	5
TW-73	DPT	MW-09978	2/3/2015	???	Gauging	850.60	850.53	16.0	2.7	1.0	16.0	835	6	16	6	16.0709	844.6035	834.5326	10
TW-74	DPT	MW-10006	2/4/2015	10/19/2015	Gauging	853.25	855.25	6.05	2.7	1	5	848.2	3.05	6.05	2.0	4.0	851.2	849.2	3
TW-75	DPT	MW-10006	2/4/2015	10/19/2015	Gauging	853.01	854.73	27.56	2.7	1	26.5	826.5	7.56	27.56	6.5	25.8	846.5	827.2	20
TW-76	DPT	MW-10006	2/4/2015	???	Gauging	852.53	852.44	43.6	2.7	1.0	43.0	810	8.62	43.62	8	43.7088	844.527	808.8182	35
TW-77	DPT	MW-10006	2/4/2015	10/20/2015	Gauging	853.55	853.71	6.30	2.2	1	6.5	847.1	2.30	6.30	2.5	6.1	851.1	847.4	4
TW-78	DPT	MW-10006	2/4/2015	10/20/2015	Gauging	854.00	854.17	6.95	2.2	1	7	847.0	2.95	6.95	3.0	6.8	851.0	847.2	4
TW-79	DPT	MW-10006	2/4/2015	10/19/2015	Gauging	852.83	854.19	41.20	2.7	1	40	812.8	37.20	41.20	36.0	39.8	816.8	813.0	4
TW-80	DPT	MW-10006	2/5/2015	10/20/2015	Gauging	849.45	849.65	7.00	2.2	1	7	842.4	3.00	7.00	3.0	6.8	846.4	842.6	4
TW-81	DPT	MW-10006	2/5/2015	8/30/2018	Gauging	849.48	849.43	7.0	2.2	1.0	7.0	842	3.00	7.00	3.0	7.0	846.5	842.4	4
TW-82	DPT	MW-10006	2/5/2015	8/30/2018	Gauging	849.83	849.64	10	2.2	1	10	839.8	6.00	10.00	6.0	10.2	843.8	839.6	4
TW-83	DPT	MW-10006	2/5/2015	8/30/2018	Gauging	850.54	850.44	17	2.2	1	10	840.5	13.00	17.00	6.0	17.1	844.5	833.4	4
TW-83	DPT	MW-10006	2/5/2015	8/30/2018	Gauging	850.54	850.44	17	2.2	1	10	840.5	13.00	17.00	6.0	17.1	844.5	833.4	4
TW-83	DPT	MW-10006	2/5/2015	8/30/2018	Gauging	850.54	850.44	17	2.2	1	10	840.5	13.00	17.00	6.0	17.1	844.5	833.4	4
TW-83	DPT	MW-10006	2/5/2015	8/30/2018	Gauging	850.54	850.44	17	2.2	1	10	840.5	13.00	17.00	6.0	17.1	844.5	833.4	4
TW-87	DPT	MW-10006	2/5/2015	8/30/2018	Gauging	850.54	850.44	17	2.2	1	10	840.5	13.00	17.00	6.0	17.1	844.5	833.4	4
TW-88	DPT	MW-10006	2/5/2015	8/30/2018	Gauging	850.54	850.44	17	2.2	1	10	840.5	13.00	17.00	6.0	17.1	844.5	833.4	4
TW-89	DPT	MW-10006	2/5/2015	8/30/2018	Gauging	850.54	850.44	17	2.2	1	10	840.5	13.00	17.00	6.0	17.1	844.5	833.4	4
TW-90	DPT	MW-10006	2/5/2015	8/30/2018	Gauging	850.54	850.44	17	2.2	1	10	840.5	13.00	17.00	6.0	17.1	844.5	833.4	4
TW-91	DPT	MW-10006	2/6/2015	10/19/2015	Gauging	846.24	847.76	37.00	2.7	1	37	809.2	33.00	37.00	33.0	35.5	813.2	810.8	4
TW-92	DPT	MW-10006	2/10/2015	10/19/2015	Gauging	841.67	842.11	45.00	2.7	1	45	796.7	5.00	45.00	5.0	44.6	836.7	797.1	40
TW-93	DPT	MW-10006	2/10/2015	10/19/2015	Gauging	843.08	843.68	50.00	2.7	1	50	793.1	10.00	50.00	10.0	49.4	833.1	793.7	40
TW-94	DPT	MW-10006	2/10/2015	Still in use	Gauging	840.75	840.58	40.00	2.7	1	40	800.8	5.00	40.00	5.0	40.2	835.8	800.6	35.00
TW-95	DPT	MW-10006	2/10/2015	10/19/2015	Gauging	840.26	840.44	45.00	2.7	1	45	795.3	15.00	45.00	15.0	44.8	825.3	795.4	30
TW-96	DPT	MW-10006	4/20/2015	1/16/2023	Gauging	840.5	840	28.76	2.7	1	30	810.5	3.76	28.76	5.0	28.9	835.5	811.6	25
TW-97	DPT	MW-10006	2/11/2015	10/19/2015	Gauging	841.39	844.77	42.00	2.7	1	42	799.4	12.00	42.00	12.0	38.6	829.4	802.8	30
TW-98	DPT	MW-10006	2/11/2015	10/20/2015	Gauging	847.68	847.99	27.00	2.7	1	27	820.7	2.00	27.00	2.0	26.7	845.7	821.0	25
Vertical Bedrock Sparging Wells																			
VBS-01	low Stem Auger/Wire Line/Air Ro	SCHE03020469M	1/28/2017	Still in use	Browns Creek Protection	NS	NS	38.15	4.00	2.00	38.50	NA	NA	NA	34.50	36.50	NA	NA	2.00
VBS-02	low Stem Auger/Wire Line/Air Ro	SCHE03020469M	4/27/2015	1/16/2023	Browns Creek Protection	NS	NS	31.05	4	2	31	NA	NA	NA	27.0	29.0	NA	NA	2
VBS-03	low Stem Auger/Wire Line/Air Ro	SCHE03020469M	4/27/2015	1/16/2023	Browns Creek Protection	NS	NS	36.20	4	2	36.2	NA	NA	NA	32.2	34.2	NA	NA	2

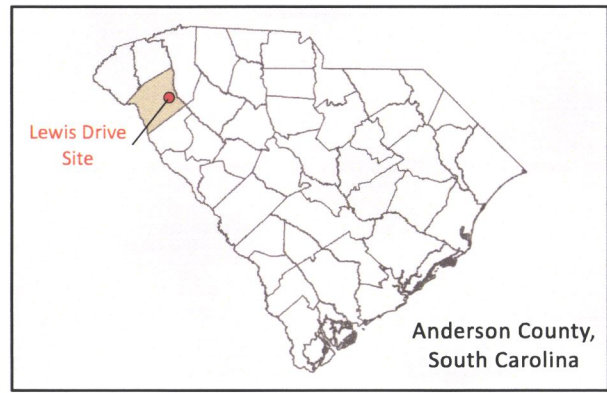
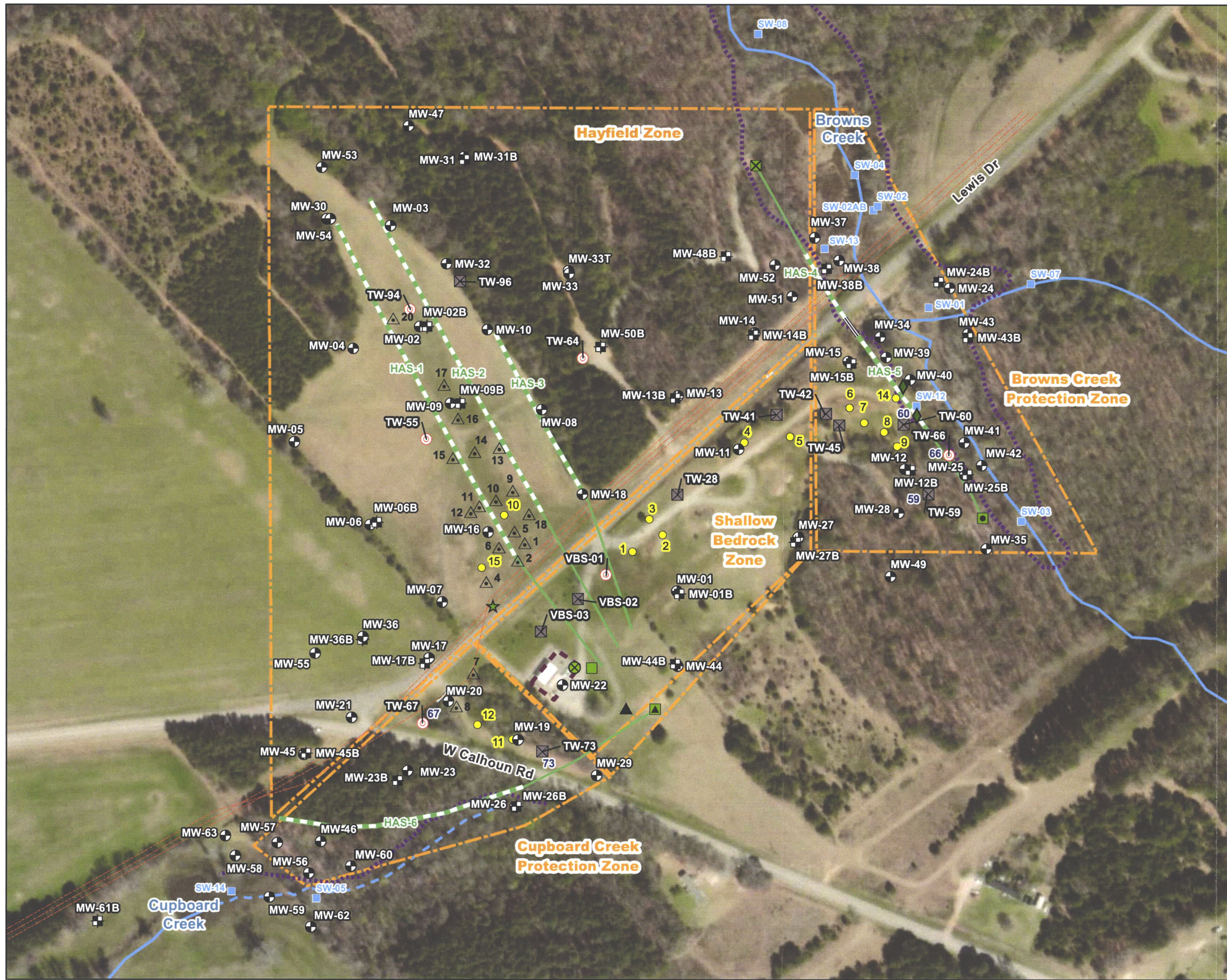
Notes:

Grayed rows indicate wells that have been abandoned.

amsl = above mean sea level relative to North American Vertical Datum of 1988 (NAVD88). Benchmark is 34.8289659 degrees north, 82.3710354 degrees west (NAD83, 2011), elevation 929.1 ft NAVD88.

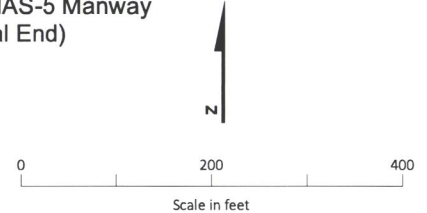
- bgs = below ground surface
- BTOC = below top of casing
- DPT = direct push
- ft = feet
- HSA = hollow-stem auger
- in = inches
- NA = not applicable
- NS = location not surveyed
- RNE = Refusal not encountered
- TOC = top of casing
- ID = identification
- RS = recovery sump
- RT = recovery trench
- RW = recovery well
- TW = temporary well
- MW = monitoring well
- VAS = vertical air sparging well
- VBS = vertical bedrock sparging well

Figure



LEGEND

- ★ Release Point
- ⊕ Monitoring Well
- ⊕ Bedrock Monitoring Well
- ⊗ Abandoned Well Location
- ⊙ Well Location Unable to be Abandoned
- ⊙ Piezometer
- △ Recovery Sump
- Recovery Well (4-inch diameter)
- ⊙ Surface Water Sampling Location
- ▲ Septic Tank
- ◆ Seep Location
- Vertical Saprolite Sparging Well
- ⊗ HAS-1 Manway
- ⊗ HAS-4/HAS-5 Manway (Distal End)
- ⊗ HAS-4/HAS-5 Manway (Proximal End)
- ▲ HAS-6 Manway (Proximal End)
- Main Valve Box
- ▬ Grout
- ▬ Horizontal Sparging Well Screen
- ▬ Horizontal Sparging Well Riser
- ▬ Pipeline
- ▬ Waterbody
- ▬ Intermittent Stream
- ▬ Inspection Route for Vegetation
- ▬ Sheen or Distressed Vegetation
- ▬ AS System Compound
- ▬ Remediation Zone



Note:
 TW-55, TW-64, TW-67, and TW-94 could not be located and were unable to be abandoned.
 TW-66 was under high pressure from HAS-5 air sparging operations and unable to be abandoned.
 VBS-01 was inaccessible due to groundwater levels in the area greater than ground surface and was unable to be abandoned.

Base Map Sources:
 Environmental Systems Research Institute (Esri)
 ArcMap World Imagery, 2020. Basemap features are approximate.
 United States Geological Survey (USGS) National Hydrography Dataset (NHD)

Figure 1. Well Abandonment Summary
 Lewis Drive Remediation Site
 Belton, South Carolina
 Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Attachment A
DHEC Form 1903 Water Well Records



dhec

Water Well Record
Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

Note: Personal information provided on this document is subject to public scrutiny or release.

1. WELL OWNER INFORMATION:
Name: Products (SE) Pipe Line Corporation
Address: 1000 Winward Concourse, Suite 450
City: Alpharetta State: Ga. Zip: 30005-000

7. PERMIT NUMBER: MW-09978

2. LOCATION OF WELL: COUNTY: Anderson
Name:
Street Address: Lewis Drive
City: Belton Zip: 29627-0000
Latitude: 989944.219 Longitude: 1546921.479

8. USE:
Residential Public Supply Process
Irrigation Air Conditioning Emergency
Test Well Monitor Well Replacement

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: TW-59

9. WELL DEPTH (completed) Date Started: 1-16-23
10.13 ft Date Completed: 1-16-23

4. ABANDONMENT: Yes No
Give Details Below
Grouted Depth: from 10.13 ft to 0 ft.

10. CASING: Threaded Welded
Diam.:
Type: PVC Galvanized Steel Other
Height: Above/Below Surface ft
Weight lb/ft
Drive Shoe? Yes No

Table with 3 columns: Formation Description, Thickness of Stratum, Depth to Bottom of Stratum

11. SCREEN:
Type: Diam.:
Slot/Gauge: Length:
Set Between: ft and ft ft and ft
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis Yes (please enclose) No

12. STATIC WATER LEVEL ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface
ft. after hrs. Pumping G.P.M.
Pumping Test: Yes (please enclose) No
Yield:

14. WATER QUALITY
Chemical Analysis Yes No Bacterial Analysis Yes No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) Yes No
Installed from ft. to ft.
Effective size Uniformity Coefficient

16. WELL GROUDED? Yes No
Neat Cement Bentonite Bentonite/Cement Other
Depth: From ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type
Well Disinfected Yes No Type: Amount:

18. PUMP: Date installed: Not installed
Mfr. Name: Model No.:
H.P. Volts Length of drop pipe ft. Capacity gpm
TYPE: Submersible Jet (shallow) Turbine
Jet (deep) Reciprocating Centrifugal

19. WELL DRILLER: Marcello Gonzales CERT. NO.: 1892-D
Address: (Print) Level: A B C D (circle one)
30 Grant Park Place
Telephone No.: 864-288-1986 Fax No.: 864-288-2272

5. REMARKS:

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Marcello Gonzales Date: 1-24-23
Well Driller

6. TYPE: Mud Rotary Jetted Bored
Dug Air Rotary Driven
Cable tool Other

If D Level Driller, provide supervising driller's name:
Randy Phillips 1096-A



Water Well Record
Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

Note: Personal information provided on this document is subject to public scrutiny or release.

1. WELL OWNER INFORMATION: Name: Products (SE) Pipe Line Corporation (last) (first) Address: 1000 Winward Concourse, Suite 450 City: Alpharetta State: Ga. Zip: 30005-000 Telephone: Work: Home:

7. PERMIT NUMBER: MW-10006

8. USE: Residential Public Supply Process Irrigation Air Conditioning Emergency Test Well Monitor Well Replacement

9. WELL DEPTH (completed) Date Started: 1-16-23 Date Completed: 1-16-23

2. LOCATION OF WELL: COUNTY: Anderson Name: Street Address: Lewis Drive City: Belton Zip: 29627-0000 Latitude: 990369.269 Longitude: 1545983.540

10. CASING: Threaded Welded Diam.: Type: PVC Galvanized Steel Other Height: Above/Below Surface Weight Drive Shoe? Yes No

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: TW-96

11. SCREEN: Type: Slot/Gauge: Set Between: Sieve Analysis Yes (please enclose) No NOTE: MULTIPLE SCREENS USE SECOND SHEET

4. ABANDONMENT: Yes No Give Details Below Grouted Depth: from 27.38 ft. to 0 ft.

Table with 3 columns: Formation Description, Thickness of Stratum, Depth to Bottom of Stratum

12. STATIC WATER LEVEL ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface. Pumping Test: Yes (please enclose) No Yield:

14. WATER QUALITY Chemical Analysis Yes No Bacterial Analysis Yes No Please enclose lab results

15. ARTIFICIAL FILTER (filter pack) Yes No Installed from Effective size Uniformity Coefficient

16. WELL GROUTED? Yes No Neat Cement Bentonite Bentonite/Cement Other Depth: From ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction Type Well Disinfected Yes No Type: Amount:

18. PUMP: Date installed: Not installed Mfr. Name: Model No.: H.P. Volts Length of drop pipe ft. Capacity gpm TYPE: Submersible Jet (shallow) Turbine Jet (deep) Reciprocating Centrifugal

19. WELL DRILLER: Marcello Gonzales CERT. NO.: 1892-D Address: (Print) 30 Grant Park Place Level: A B C D (circle one) Telephone No.: 864-288-1986 Fax No.: 864-288-2272

*Indicate Water Bearing Zones (Use a 2nd sheet if needed)

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

5. REMARKS:

Signed: [Signature] Date: 1-24-23 Well Driller

6. TYPE: Mud Rotary Jetted Bored Dug Air Rotary Driven Cable tool Other

If D Level Driller, provide supervising driller's name: Randy Phillips 1096-A



Water Well Record
Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

Note: Personal information provided on this document is subject to public scrutiny or release.

1. WELL OWNER INFORMATION: Name: Products (SE) Pipe Line Corporation... 2. LOCATION OF WELL: COUNTY: Anderson... 3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: TW-28... 4. ABANDONMENT: [X] Yes [] No... 5. REMARKS: *Indicate Water Bearing Zones... 6. TYPE: [] Mud Rotary [] Jetted [] Bored... 7. PERMIT NUMBER: MW-09978... 8. USE: [] Residential [] Public Supply [] Process... 9. WELL DEPTH (completed) Date Started: 1-16-23... 10. CASING: [] Threaded [] Welded... 11. SCREEN: Type: _____ Diam.: _____... 12. STATIC WATER LEVEL _____ ft. below land surface after 24 hours... 13. PUMPING LEVEL Below Land Surface... 14. WATER QUALITY Chemical Analysis [] Yes [] No... 15. ARTIFICIAL FILTER (filter pack) [] Yes [] No... 16. WELL GROUDED? [] Yes [] No... 17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: _____ ft. direction... 18. PUMP: Date installed: _____ Not installed []... 19. WELL DRILLER: Marcello Gonzales CERT. NO.: 1892-D... 20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.



Water Well Record
Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

Note: Personal information provided on this document is subject to public scrutiny or release.

1. WELL OWNER INFORMATION:
 Name: Products (SE) Pipe Line Corporation
 (last) (first)
 Address: 1000 Winward Concourse, Suite 450
 City: Alpharetta State: Ga. Zip: 30005-000
 Telephone: Work: Home:

7. PERMIT NUMBER: MW-09978

2. LOCATION OF WELL: COUNTY: Anderson
 Name:
 Street Address: Lewis Drive
 City: Belton Zip: 29627-0000
 Latitude: 989942.465 Longitude: 1546422.102

8. USE:
 Residential Public Supply Process
 Irrigation Air Conditioning Emergency
 Test Well Monitor Well Replacement

9. WELL DEPTH (completed) Date Started: 1-16-23
 28 ft Date Completed: 1-16-23

10. CASING: Threaded Welded
 Diam: _____
 Type: PVC Galvanized Steel Other
 _____ in. to _____ ft. depth
 _____ in. to _____ ft. depth
 Height: Above/Below _____ ft.
 Surface _____ ft.
 Weight _____ lb./ft.
 Drive Shoe? Yes No

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: TW-28

11. SCREEN:
 Type: _____ Diam: _____
 Slot/Gauge: _____ Length: _____
 Set Between: _____ ft. and _____ ft. NOTE: MULTIPLE SCREENS
 _____ ft. and _____ ft. USE SECOND SHEET
 Sieve Analysis Yes (please enclose) No

4. ABANDONMENT: Yes No
 Give Details Below
 Grouted Depth: from 28 ft. to 0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum

12. STATIC WATER LEVEL _____ ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
 _____ ft. after _____ hrs. Pumping _____ G.P.M.
 Pumping Test: Yes (please enclose) No
 Yield: _____

14. WATER QUALITY
 Chemical Analysis Yes No Bacterial Analysis Yes No
 Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) Yes No
 Installed from _____ ft. to _____ ft.
 Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? Yes No
 Neat Cement Bentonite Bentonite/Cement Other _____
 Depth: From _____ ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: _____ ft. direction
 Type _____
 Well Disinfected Yes No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed
 Mfr. Name: _____ Model No.: _____
 H.P. _____ Volts _____ Length of drop pipe _____ ft. Capacity _____ gpm
 TYPE: Submersible Jet (shallow) Turbine
 Jet (deep) Reciprocating Centrifugal

19. WELL DRILLER: Marcello Gonzales CERT. NO.: 1892-D
 Address: (Print) Level: A B C D (circle one)
 30 Grant Park Place
 Telephone No.: 864-288-1988 Fax No.: 864-288-2272

*Indicate Water Bearing Zones
 (Use a 2nd sheet if needed)

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

5. REMARKS:

Signed: Randy Phillips Date: 1-24-23
 Well Driller

6. TYPE: Mud Rotary Jetted Bored
 Dug Air Rotary Driven
 Cable tool Other

If D Level Driller, provide supervising driller's name:
 Randy Phillips 1096-A