

December 5, 2023

Delivered via Trackable Overnight Delivery

Ms. Caitlin Reilly
South Carolina Department of Health and Environmental Control
Assessment and Non-Permitted Petroleum Section
UST Division
2600 Bull Street
Columbia, South Carolina 29201



RECEIVED
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UST DIVISION

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

Dear Ms. Reilly,

On behalf of Products (SE) Pipe Line Corporation (PPL), Jacobs Engineering Group Inc. (Jacobs) has prepared this summary of well abandonment activities to fulfill the Request to Abandon Vertical Bedrock Sparging and Temporary Piezometer Wells letter submitted to the South Carolina Department of Health and Environmental Control (DHEC) on October 3, 2022, and approved by DHEC in a letter dated October 12, 2022.

On January 16, 2023, Jacobs began the abandonment activities outlined in the October 3, 2022, well abandonment letter request. Abandonment activities could not be completed on 5 of the 13 temporary piezometer wells and on one of the three vertical air sparge wells during the first mobilization as outlined in the Well Abandonment and Well Completion Summary letter submitted to DHEC on February 15, 2023.

On October 30, 2023, Jacobs resumed activities on the remaining wells to be abandoned. Between October 30, 2023 and November 3, 2023, Jacobs and IET, Inc. completed the following work:

- Abandoned five temporary monitoring wells (TW-55, TW-64, TW-66, TW-67, and TW-94) 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 one vertical bedrock sparging (VBS-01) well 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.

Jacobs

December 5, 2023

Subject: Well Abandonment Summary

The wells abandoned between October 30, 2023 and November 3, 2023 are presented on **Figure 1**. **Table 1** lists the former temporary piezometer well construction and abandonment information.

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 – Well Construction and Abandonment Information
Figure 1 – Abandoned Well Locations
Attachment A – DHEC Form 1903 Water Well Records

Table

Figure



- ### Legend
- Monitoring Well
 - Bedrock Monitoring Well
 - Abandoned Well Locations
 - Seep Location
 - Waterbody
 - Intermittent Stream
 - Piezometer
 - Delineated Wetland
 - Septic Tank
 - Release Point
 - Recovery Sump
 - Recovery Trench Point
 - Recovery Well (4-inch diameter)
 - Surface Water Sampling Location
 - 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
 - Recovery Trench
 - Inspection Route for Sheen or Distressed Vegetation
 - Streets_OneMile
 - AS System Compound
 - Horizontal Sparging Well Riser
 - Horizontal Sparging Well Screen
 - Vertical Saprolite Sparging Well
 - Proposed Vertical Air Sparge Well Locations
 - Recovery Well (4-inch diameter)
 - Proposed VAS Line Extension

Base Map Sources:
 *ESRI World Imagery Layer, 2022
 *United States Geological Survey (USGS) National Hydrography Dataset (NHD)

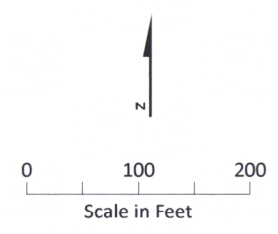


Figure 1. Abandoned Well Locations
 Lewis Drive Remediation Site
 Belton, South Carolina
 Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Attachment A
DHEC Form 1903 Water Well Records



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
Telephone: Work: Home:

7. PERMIT NUMBER: MW-09978

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

2. LOCATION OF WELL:
COUNTY: Anderson
Name:
Street Address: Lewis Drive
City: Belton Zip: 29627-0000
Latitude: 990216.834 Longitude: 1546232.195

9. WELL DEPTH (completed) Date Started: 10-30-23
55 ft. Date Completed: 11-7-23

10. CASING: Threaded Welded
Diam.: 1"
Type: PVC Galvanized Steel Other
in. to ft. depth
in. to ft. depth
Height: Above/Below Surface
Weight lb./ft.
Drive Shoe? Yes No

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:
TW-64

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

4. ABANDONMENT: Yes No
Give Details Below
Grouted Depth: from 55 ft. to 0 ft.

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:

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

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 55 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: Randy Phillips CERT. NO.: 1096-A
Address: (Print) Level: A B C D (circle one)
30 Grant Park Place

Telephone No.: 864-288-1986 Fax No.: 864-288-2272

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.

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

5. REMARKS:
Elevation 845.95
TOC 845.88

Signed: Randy Phillips Date: 11-15-23
Well Driller

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

If D Level Driller, provide supervising driller's name:



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

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

9. WELL DEPTH (completed) 24 ft. Date Started: 10-30-23 Date Completed: 11-7-23

2. LOCATION OF WELL:
Name: COUNTY: Anderson
Street Address: Lewis Drive
City: Belton Zip: 29627-0000
Latitude: 99022.631 Longitude: 154965.321

10. CASING: Threaded, Welded, Diam.: 1", Type: PVC, Galvanized, Steel, Other

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: TW-66

11. SCREEN: Type, Diam., Slot/Gauge, Length, Set Between, Sieve Analysis

4. ABANDONMENT: Yes No, Grouted Depth: from 24 ft. to 0 ft.

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

13. PUMPING LEVEL Below Land Surface. ft. after hrs. Pumping G.P.M.

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

14. WATER QUALITY: Chemical Analysis, Bacterial Analysis

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

16. WELL GROUTED? Yes No, Neat Cement, Bentonite, Bentonite/Cement, Other

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction, Type, Well Disinfected, Amount

18. PUMP: Date installed, Mfr. Name, Model No., H.P., Volts, Length of drop pipe, Capacity, TYPE

19. WELL DRILLER: Randy Phillips, CERT. NO.: 1096-A, Address: 30 Grant Park Place

*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: Elevation 820.18, TOC 820.31

Signed: Randy Phillips, Date: 11-15-23, Well Driller

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

If D Level Driller, provide supervising driller's name:



Water Well Record Bureau of Water

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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: SCHE03020469M

2. LOCATION OF WELL: COUNTY: Anderson
 Name:
 Street Address: Lewis Drive
 City: Belton Zip: 29627-0000
 Latitude: 989733.146 Longitude: 1546223.970

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

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: VBS-01

9. WELL DEPTH (completed) Date Started: 10-30-23
 38.5 ft. Date Completed: 11-7-23

4. ABANDONMENT: Yes No
 Give Details Below
 Grouted Depth: from 38.5 ft. to 0 ft.

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

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum

11. SCREEN:
 Type: _____ Diam.: _____
 Slot/Gauge: _____ Length: _____
 Set Between: _____ ft. and _____ ft. **NOTE: MULTIPLE SCREENS USE SECOND SHEET**
 _____ ft. and _____ ft.
 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 GROUTED? Yes No
 Neat Cement Bentonite Bentonite/Cement Other _____
 Depth: From 38.5 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: Randy Phillips CERT. NO.: 1096-A
 Address: (Print)
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