

October 7, 2024

Delivered via Trackable Overnight Delivery

Courtney Milledge
South Carolina Department of Environmental Services
Underground Storage Tank Division
2600 Bull Street
Columbia, South Carolina 29201

**Subject: HAS-6 Modification Work Summary and 1903 Well Form
Products (SE) Pipe Line Corporation
Lewis Drive Remediation Site
Belton, South Carolina
Site ID #18693, "Kinder Morgan Belton Pipeline Release"**

Dear Ms. Milledge,

On behalf of Products (SE) Pipe Line Corporation (PPL), Jacobs has prepared this work summary of the horizontal sparging well HAS-6 modification work that occurred August 5 through 23, 2024 at the Lewis Drive Remediation Site (**Figure 1**). This work summary was completed to request an update to the current Permit to Operate # SCHE000047 v3.0 (**Attachment A**).

A Corrective Action Plan (CAP) Addendum #3 was submitted to South Carolina Department of Health and Environmental Control (DHEC) (now called South Carolina Department of Environmental Services; DES) on May 2, 2024, detailing the plans to modify HAS-6. The CAP Addendum #3 was approved by DHEC on May 24, 2024. A copy of the CAP Addendum #3 was emailed to the Water Quantity Permitting Section of DHEC on May 7, 2024, to determine if a modification was necessary for the former Underground Injection Control (UIC) Permit to Construct/Operate (SCHE03020469M4). A Permit to Construct modification of SCHE03020469M4 was issued on July 25, 2024 by DES as Permit #SCHE000047 Construction Modification HAS-6, to approve the plans from the CAP Addendum #3.

As presented in the CAP Addendum #3 and during a meeting with DHEC on March 1, 2024, PPL modified the HAS-6 well screen to divert compressed air to the distal end of the well, beyond the inadvertent return locations. The modification included an excavation to the HAS-6 well screen at the HAS-6 Access Point shown on **Figure 1**. Approximately 8 feet of screen was removed, the distal end of the well screen was joined to a new 1.5-inch slipline pipe, and a standpipe/access vault and extended stem valve was added, as shown on **Figure 2**. The modification will allow air to be routed to the distal end of the screen section and/or to the surface for potential future use. If the latter is planned, DHEC will be notified in advance. The original 1903 Water Well Record form for HAS-6 was submitted to DHEC on November 10, 2021, and is included as **Attachment B**. The modified HAS-6 1903 Water Well Record form is included as **Attachment C**.

Jacobs

October 7, 2024

Subject: HAS-6 Modification Work Summary and 1903 Well Form

Parameters of the original HAS-6 horizontal well are summarized as follows:

- 3-inch DR 11 HDPE, 340 ft riser, 485 ft screen, depth ranges from 8 -18 ft bgs

The length of well screen was shortened to focus compressed airflow toward the distal end of the screen, as follows:

- 3-inch DR 11 HDPE, 570 ft riser, 220 ft screen, depth ranges from 8 -18 ft bgs

Design flow rates for HAS-6 will range from 0.5-1.0 cfm/ft screen (similar to Hayfield Zone horizontal well flow rates), using the existing air compressors and manifold system.

If you have any questions regarding this proposed HAS-6 modification work summary 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)
Caitlin Reilly, South Carolina Department of Environmental Services (Digital, caitlin.reilly@des.sc.gov)

Figures:

Figure 1 – Site Overview

Figure 2 – HAS-6 Modification Detail As-built

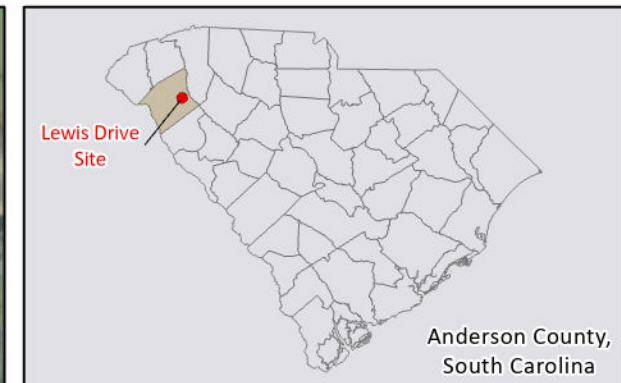
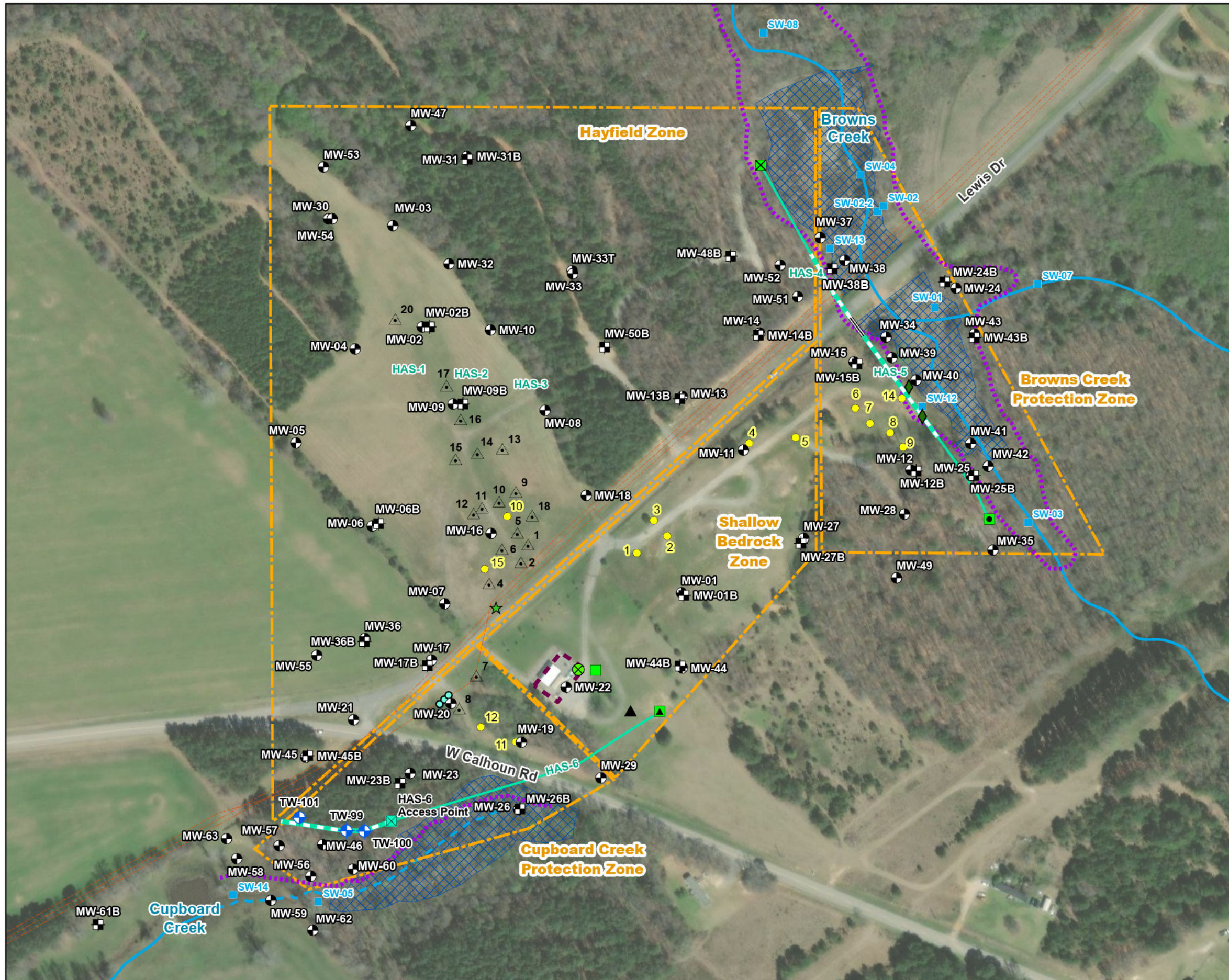
Attachments:

Attachment A – Underground Injection Control Permit # SCHE000047 v3.0 Modification

Attachment B – Original HAS-6 1903 Water Well Record Form

Attachment C – Modified HAS-6 1903 Water Well Record Form

Figures



LEGEND

★ Release Point	■ Main Valve Box
⊕ Monitoring Well	≡ Grout
⊕ Bedrock Monitoring Well	— Horizontal Sparging Well Screen
⊕ Observation Well	— Horizontal Sparging Well Riser
⊕ HAS-6 Modification Access Point	— Pipeline
△ Recovery Sump	— Waterbody
○ Recovery Trench Point	— Intermittent Stream
● Recovery Well (4-inch diameter)	▨ Delineated Wetland (October 5, 2022)
▲ Septic Tank	— Inspection Route for Sheen or Distressed Vegetation
◆ Seep Location	▭ AS System Compound
⊗ HAS-1 Manway	■ Surface Water Sampling Location
⊗ HAS-4/HAS-5 Manway (Distal End)	⊞ Remediation Zone
⊗ HAS-4/HAS-5 Manway (Proximal End)	
⊗ HAS-6 Manway (Proximal End)	

Note:
 All quarterly wells will be sampled biannually.
 All quarterly and semiannual samples will be sampled annually.

Base Map Sources:
 Environmental Systems Research Institute (Esri)
 ArcMap World Imagery, 2022. Basemap features are approximate.
 United States Geological Survey (USGS) National Hydrography Dataset (NHD)

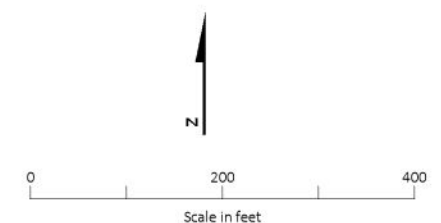
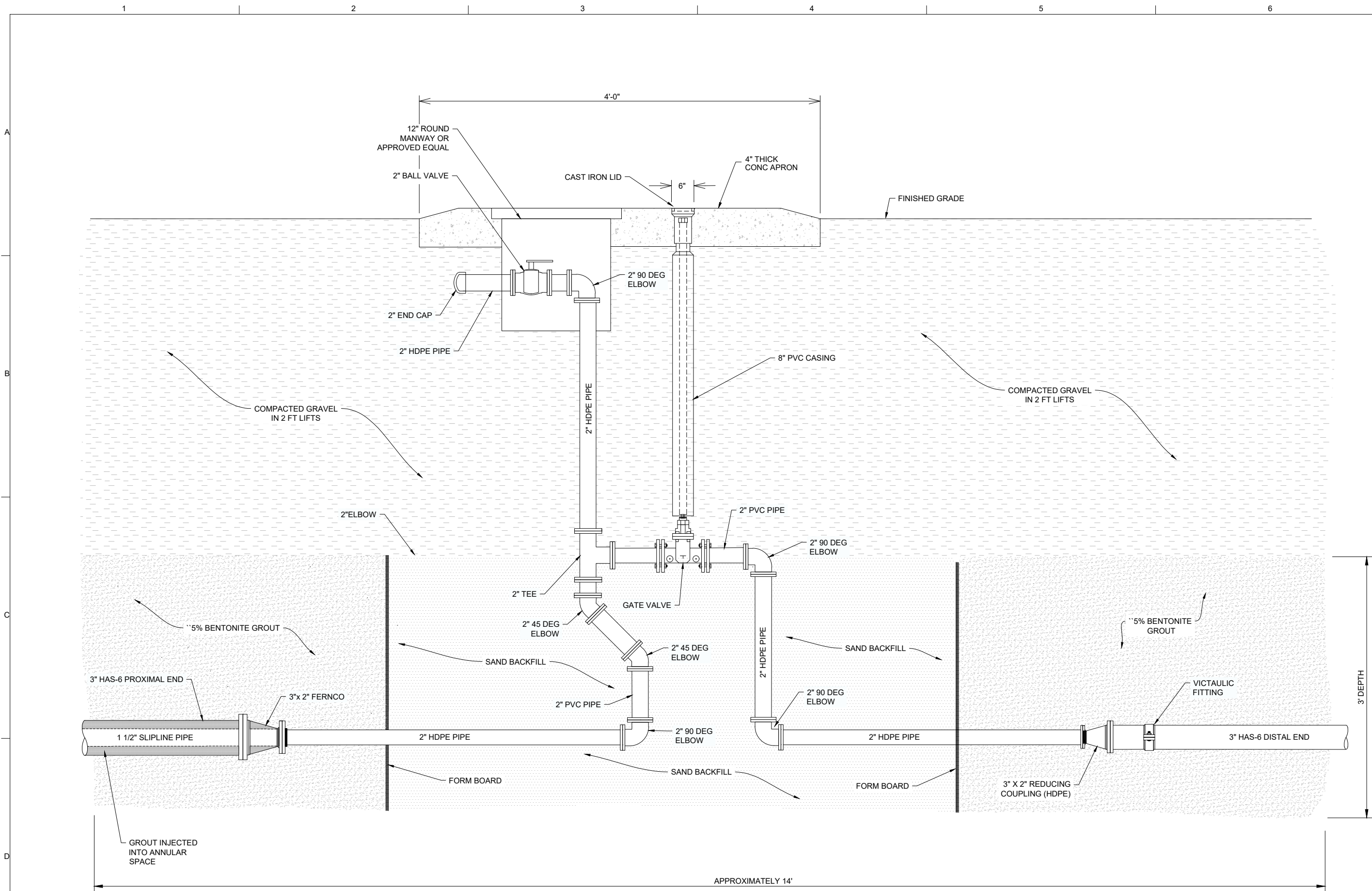


Figure 1. Site Overview
 Lewis Drive Remediation Site
 Belton, South Carolina
 Site ID #18693 "Kinder Morgan Belton Pipeline Release"



NO.	DATE	DR	CHK	REVISION	BY	APVD
		M. STRONG	E. GRIGGS			

LEWIS DRIVE REMEDIATION SITE
 BELTON, SC. SITE ID # 18693
 KINDER MORGAN
 BELTON PIPELINE RELEASE

Jacobs
 HAS-6
 MODIFICATION DETAIL

NO SCALE
 VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
 DATE MARCH 2024
 PROJ
 DWG FIGURE 2
 SHEET

ISSUED FOR PERMIT
 REUSE OF DOCUMENTS: THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN AS AN INSTRUMENT OF PROFESSIONAL SERVICE IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL.
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Attachment A
Underground Injection Control Permit # SCHE000047 v3.0
Modification



March 23, 2024

ATTN: GREG DEMPSEY
Products (SE) Pipe Line Corporation
1000 WINDWARD CONCOURSE STE 450
ALPHARETTA, GA, 30005

Re: Underground Injection Control Permit # SCHE000047 v3.0 MODIFICATION
Lewis Drive Release #18693 112 Lewis Drive Belton SC Site
Anderson County

Dear Mr. GREG DEMPSEY:

Enclosed is a Permit to Operate Thirty-five (35) DPT, 63 (sixty-three) Vertical AirSparge VAS, 6 (six) Horizontal AirSparge HAS, Class V.A-I wells at the PRODUCTS (SE) PIPE LINE CORPORATION - Lewis Drive Release #18693 Site Site, Anderson County as requested in the permit application received .Other permits maybe necessary for the intended activities. Please ensure all permits have been obtained before proceeding.

**South Carolina Board of Health and Environmental Control
Guide to Board Review
Pursuant to S.C. Code Ann. § 44-1-60
Effective May 8, 2014**

The decision of the South Carolina Department of Health and Environmental Control (Department) becomes the final agency decision fifteen (15) calendar days after notice of the decision has been mailed to the applicant, permittee, licensee and affected persons who have requested in writing to be notified, unless a written request for final review accompanied by a filing fee in the amount of \$100 is filed with Department by the applicant, permittee, licensee or affected person.

Applicants, permittees, licensees, and affected parties are encouraged to engage in mediation during the final review process.

If the Board declines in writing to schedule a final review conference, the Department's decision becomes the final agency decision and an applicant, permittee, licensee, or affected person may request a contested case hearing before the Administrative Law Court within thirty (30) calendar days after notice is mailed that the Board declined to hold a final review conference.

I. Filing of Request for Final Review

1. A written Request for Final Review (RFR) and the required filing fee of one hundred dollars (\$100) must be received by Clerk of the Board within fifteen (15) calendar days after notice of the staff decision has been mailed to the applicant, permittee, licensee, or affected persons. If the 15th day occurs on a weekend or State holiday, the RFR must be received by the Clerk on the next working day. RFRs will not be accepted after 5:00 p.m.
2. RFRs shall be in writing and should include, at a minimum, the following information:
 - The grounds for amending, modifying, or rescinding the staff decision;
 - a statement of any significant issues or factors the Board should consider in deciding how to handle the matter;
 - the relief requested; and
 - a copy of the decision for which review is requested.

3. RFRs should be filed in person or by mail at the following address:

South Carolina Board of Health and Environmental Control

Attention: Clerk of the Board

2600 Bull Street

Columbia, South Carolina 29201

Alternatively, RFR's may be filed with the Clerk by facsimile (803-898-3393) or by electronic mail (boardclerk@dhec.sc.gov).

4. The filing fee maybe paid by cash, certified check or credit card. If a RFR is filed by facsimile or electronic mail, the filing fee may be mailed to the Clerk of the Board and the envelope must be postmarked within the time allowed for filing a RFR.
5. If there is any perceived discrepancy in compliance with this RFR filing procedure, the Clerk should consult with the Chairman or, if the Chairman is unavailable, the Vice-Chairman. The Chairman or the Vice-Chairman will determine whether the RFR is timely and properly filed and direct the Clerk to (1) process the RFR for consideration by the Board or (2) return the RFR and filing fee to the requestor with a cover letter explaining why the RFR was not timely or properly filed. Processing an RFR for consideration by the Board shall not be interpreted as a waiver of any claim or defense by the agency in subsequent proceedings concerning the RFR.
6. If the RFR will be processed for Board consideration, the Clerk will send an Acknowledgement of RFR to the Requestor and the applicant, permittee, or licensee, if other than the Requestor.
7. The Clerk will email the RFR to all Board members for review, and all Board members will confirm receipt of the RFR to the Clerk by email. If a Board member does not confirm receipt of the RFR within twenty-four (24) hour period, the Clerk will contact the Board member and confirm receipt. If a Board member believes the RFR should be considered by the RFR Committee, he or she will respond to the Clerk's email within forty-eight (48) hours and will request further review. If no Board member requests further review of the RFR within the forty-eight (48) hour period, the Clerk will send a letter by certified mail to the Requestor, with copy by regular mail to the applicant, permittee, or licensee, if not the Requestor, stating the Board will not hold a Final Review Conference. A copy of the Notice of Appeal Procedure will be included with the letter.

NOTE: If the time periods described above end on a weekend or State holiday, the time is automatically extended to 5:00 p.m. on the next business day.

8. If the RFR is to be considered by the RFR Committee, the Clerk will forward a copy of the RFR to Department staff and Office of General Counsel. A Department response to the RFR should be provided by Department staff to the Clerk within eight (8) working days after the RFR is forwarded.

II. Final Review Conference Scheduling

1. If a Conference will be held, the Clerk will send a letter by certified mail to the Requestor, with copy by regular mail to the applicant, permittee, or licensee, if not the Requestor, informing the Requestor of the determination.
2. The Clerk will request Department staff provide the Administrative Record.
3. The Clerk will send Notice of Final Review Conference to the parties at least ten (10) days before the Conference. The Conference will be publicly noticed and should:
 - include the place, date and time of the Conference;
 - state the presentation times allowed in the Conference;
 - state evidence may be presented at the Conference;
 - if the conference will be held by committee, include a copy of the Chairman's order appointing the committee; and
 - inform the Requestor of his or her right to request a transcript of the proceedings of the Conference prepared at Requestor's expense.

4. If a party requests a transcript of the proceedings of the Conference and agrees to pay all related costs in writing, including costs for the transcript, the Clerk will schedule a court reporter for the Conference.

III. Final Review Conference and Decision

1. The order of presentation in the Conference will, subject to the presiding officer's discretion, be as follows:
 - Department staff will provide an overview of the staff decision and the applicable law to include [10 minutes]:
 - Type of decision (permit, enforcement, etc.) and description of the program.
 - Parties
 - Description of facility/site
 - Applicable statutes and regulations
 - Decision and materials relied upon in the administrative record to support the staff decision.
 - Requestor(s) will state the reasons for protesting the staff decision and may provide evidence to support amending, modifying, or rescinding the staff decision. [15 minutes] *NOTE: The burden of proof is on the Requestor(s)*
 - Rebuttal by Department staff [15 minutes]
 - Rebuttal by Requestor(s) [10 minutes]

Note: Times noted in brackets are for information only and are superseded by times stated in the Notice of Final Review Conference or by the presiding officer.
2. Parties may present evidence during the conference; however, the rules of evidence do not apply.
3. At any time during the conference, the officers conducting the conference may request additional information and may question the Requestor, the staff, and anyone else providing information at the conference.
4. The presiding officer, in his or her sole discretion, may allow additional time for presentations and may impose time limits on the Conference.
5. All Conferences are open to the public.
6. The officers may deliberate in closed session.
7. The officers may announce the decision at conclusion of the Conference or it may be reserved for consideration.
8. The Clerk will mail the written final agency decision (FAD) to parties within 30 days after the Conference. The written decision must explain the basis for the decision and inform the parties of their right to request a contested case hearing before the Administrative Law Court. The FAD will be sent by certified mail, return receipt requested.
9. Communications may also be sent by electronic mail, in addition to the forms stated herein, when electronic mail addresses are provided to the Clerk.

The above information is provided as a courtesy; parties are responsible for complying with all applicable legal requirements.

If you have any questions, please call Courtney Milledge at (803) 898-5609.

Sincerely,



Courtney Milledge, Hydrogeologist – UIC Coordinator
Water Monitoring Assessment and Protection Division
SCDHEC - Bureau of Water



WATER MONITORING ASSESSMENT & PROTECTION DIVISION

Injection Well Operating Approval

for

Class II, III, and V.A. Injection Well(s)

Permit # SCHE000047 v3.0 MOD

Date of Issue: March 25, 2024

In accordance with R.61-72 this permit will become final unless it is appealed within fifteen (15) days of the issuance date.

In accordance with the provisions of Title 48, Chapter 1, South Carolina Code of Laws, 1976, as amended, and pursuant to receiving a Permit to Operate Thirty-five (35) DPT, 63 (sixty-three) Vertical AirSparge VAS, 6 (six) Horizontal AirSparge HAS, Class V.A-I wells, authorization is granted to Products (SE) Pipe Line Corporation C/O GREG DEMPSEY to operate Thirty-five (35) DPT, 63 (sixty-three) Vertical AirSparge VAS, 6 (six) Horizontal AirSparge HAS, Class V.A-I wells located at the Lewis Drive Release #18693 112 Lewis Drive Belton SC Site, Anderson County, SC, and are subject to the attached provisos noted for the operator.

The Thirty-five (35) DPT temporary wells are 1 to 3 inches in diameter, 63 (sixty-three) Vertical AirSparge VAS Class V.A IW injection wells are 2 inches in diameter, the 6 (six) Horizontal AirSparge HAS wells are 2 inches in diameter, and approximately 30 feet deep.

Pursuant to Title 48, Chapter 1, South Carolina Code of Laws, 1976, as amended, this authorization may be rescinded if these injection wells should, at any time, contaminate, pollute, or otherwise adversely affect other water in the vicinity or for any other conditions contained in R61-87, Title 48, Chapter 1, South Carolina Code of Laws, 1976, as amended.

Expires: April 09, 2028

A handwritten signature in black ink that reads 'Leigh Anne R. Monroe'.

Leigh Anne R. Monroe, Manager
Water Monitoring Assessment and Protection Division
SCDHEC - Bureau of Water

Date March 25, 2024

Provisions to the Injection Well Operating Approval
for
Underground Injection Well Permit # SCHE000047 v3.0 MOD
Lewis Drive Release #18693 112 Lewis Drive Belton SC Site
Anderson County, SC
March 25, 2024

- 1) Construction of new or abandonment of existing wells must be reported to the Department within thirty (30) days of completion.
- 2) Only Activated Carbon, Potable Water, Magnesium Sulfate, Ammonium Sulfate and Ambient air as described in the corrective action plan may be injected into the subsurface at the wells. Any changes in the system operation other than as presented in the UIC Permit Application must be reported to the Department **prior** to implementation.
- 3) **Permit must be maintained as an active Permit to Operate. Failure to renew a Permit within 30 days of expiration will result in automatic closure of the Permit to Operate. Reactivation of an expired Permit to Operate will be considered after a letter of request to reactivate UIC Permit SCHE000047 v3.0 is received and reviewed.**

Attachment B
Original HAS-6 1903 Water Well Record Form

Attachment C
Modified HAS-6 1903 Water Well Record Form



Water Well Record Bureau of Water

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

1. WELL OWNER INFORMATION:

Name: **Products (SE)Pipeline Corporation**
 (last) (first)
 Address: 1000 Windward Concourse, Suite 450
 City: **Alpharetta** State: **GA** Zip: 30005-0000
 Telephone: Work: (770) 751-4143 Home:

2. LOCATION OF WELL:

COUNTY: Anderson

Name: **HAS-6 Modified**
 Street Address: 112 Lewis Drive
 City: **Belton, SC** Zip: 29627-0000
 Latitude: 34 32'33.25"N Longitude: 82 30'36.73"W

3. PUBLIC SYSTEM NAME:

PUBLIC SYSTEM NUMBER:

site ID18693 HAS-6

4. ABANDONMENT:

Yes No

Give Details Below

Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum

*Indicate Water Bearing Zones

(Use a 2nd sheet if needed)

5. REMARKS:

Modification of Well Screen Length.

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

7. PERMIT NUMBER:

MW-12860

8. USE:

- Residential Public Supply Process
 Irrigation Air Conditioning Emergency
 Test Well Monitor Well Replacement

9. WELL DEPTH (completed)

Date Started: 08/05/2024

825 (Horizontal) ft.

Date Completed: 08/23/2024

10. CASING: Threaded Welded

Diam.: 1.5"

Height: Above/below

Type: PVC Galvanized

Surface _____ ft.

Steel Other

Weight _____ lb./ft.

1.5 in. to 605 (horizontal) ft. depth

Drive Shoe? Yes No

11. SCREEN:

Type: **SDR-11 HDPE** Diam.: 3"

Slot/Gauge: 0.020 x 1.375 Length: 220ft (Horizontal)

Set Between: 605 ft. and 825 ft. **NOTE: MULTIPLE SCREENS**

_____ ft. and _____ ft. **USE SECOND SHEET**

Sieve Analysis Yes (please enclose) No

12. STATIC WATER LEVEL 6 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: NA

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 See Attachments

Depth: From _____ ft. to _____ ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: NA ft. _____ direction

Type _____

Well Disinfected Yes No Type: _____ Amount: _____

18. PUMP: Date installed: NA 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: Zach Thompson

CERT. NO.: 2285

Address: (Print)

Level: A B C **(D)** (circle one)

SAEDACCO

9088 Northfield Drive
Fort Mill, SC 29707

Telephone No.: (803) 548-2180

Fax No.: (803) 548-2181

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: Date: 09/23/2024
Well Driller

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

Rich Lemire