

**WATER WELL RECORD (WWC-5)**

KOLAR DOC ID \_\_\_\_\_ WELL ID \_\_\_\_\_

Original Record      Correction      Change in Well Use

**LOCATION OF WATER WELL**

Latitude		Longitude		Section		Township		Range		E W	Fraction	¼	¼	¼
Datum		Elevation		County										

**WATER WELL OWNER**

Name	
Business	
Address	
Well location at owner's address	

**WELL WATER USE**

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**COMPLETION**

Depth of completed well: _____ ft.
Depth(s) groundwater encountered:
(1) _____ ft.; (2) _____ ft.;
(3) _____ ft.; (4) dry well
Static water level in well: _____ ft.
measured below land surface
on (mm/dd/yy): _____
measured above land surface
on (mm/dd/yy): _____
Estimated yield: _____ gpm
Water level was: _____ ft. after _____ hours
pumping _____ gpm
Pump installed?    Yes    No
Water well disinfected?    Yes    No
Date disinfected (mm/dd/yy): _____
Aquifer, if known:

**NEAREST SOURCE OF POTENTIAL CONTAMINATION**

Source: _____
Distance from well: _____      Direction from well: _____
Source description: _____
Source: _____
Distance from well: _____      Direction from well: _____
Source description: _____
No potential source of contamination within 100 feet.

**CONSTRUCTION**

Borehole interval:	Borehole diameter:
from _____ to _____ ft.	_____ in.
from _____ to _____ ft.	_____ in.
Casing height above land surface: _____ in.	
If casing height is less than 12 in. has a variance been approved?*	Yes    No
*variance not required for monitoring or environmental remediation wells	
Casing type: _____	
Blank casing interval: _____ ft. to _____ ft.	
Blank casing diameter: _____ in.	
Casing joints: _____	
Weight: _____ lbs/ft.	
Wall thickness or gauge no.: _____	
Blank casing interval: _____ ft. to _____ ft.	
Blank casing diameter: _____ in.	
Casing joints: _____	
Weight: _____ lbs/ft.	
Wall thickness or gauge no.: _____	
Grout interval: _____ ft. to _____ ft.	
Grout material: _____	
Grout interval: _____ ft. to _____ ft.	
Grout material: _____	
Screen / perforation material: _____	
Screen / perforation openings: _____	
Screen / perforation intervals:	
From _____ ft. to _____ ft.	
Slot size _____ unit _____	
From _____ ft. to _____ ft.	
Slot size _____ unit _____	
Gravel pack intervals:	
Gravel pack not used:      Gravel size _____ in	
From _____ ft. to _____ ft.	
Gravel pack not used:      Gravel size _____ in	
From _____ ft. to _____ ft.	

**PERMIT & ID NUMBERS (AS REQUIRED)**

DWR Application No.: _____
KDHE / EPA Project Code: _____
Site Name: _____
KDHE UIC Class V Form Completed:    Yes    No
County Permit:    Yes    No    Permit ID: _____
Lease Name & Well #: _____
# of boreholes: _____    # of dewatering wells: _____

**LITHOLOGIC LOG**

FROM	TO	LITHOLOGY INTERVALS

**COMMENTS**

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**CONTRACTOR'S OR LANDOWNERS CERTIFICATION**

This water well was    constructed    reconstructed    pursuant to the stated water well contractor's license and was completed on _____. I certify that this record is true to the best of my knowledge and belief. This water well record was completed on _____ under the business name of _____, Kansas Water Well Contractor's License No. _____ under the authority of the designated person as defined in K.A.R. 28-30-2(j) and signed and certified by the electronic signature of the designated person at its submittal: _____.
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Send one copy to WATER WELL OWNER and retain one for your records. Fee of \$5.00 for each constructed well.

# HTW DRILLING LOG

HOLE NO.  
027MW025

1. COMPANY NAME Burns & McDonnell		2. DRILLING SUBCONTRACTOR RAZEK ENV., Inc.		SHEET 1 OF 3 SHEETS	
3. PROJECT SFAAP		4. LOCATION SWMU 27			
5. NAME OF DRILLER T. Poulter		6. MANUFACTURER'S DESIGNATION OF DRILL GeoProbe 7822 DT			
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	2-inch MacroCore Sampler		8. HOLE LOCATION E: 2156840.88' N: 231281.40'		
	7.25 HSA				
			9. SURFACE ELEVATION 913.22'		
		10. DATE STARTED 9/26/24		11. DATE COMPLETED 9/26/24	
12. OVERBURDEN THICKNESS 13.0 ft		15. DEPTH GROUNDWATER ENCOUNTERED 13.0 ft bgs			
13. DEPTH DRILLED INTO ROCK 1.5 ft		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED NA			
14. TOTAL DEPTH OF HOLE 14.5 ft		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) NA			
18. GEOTECHNICAL SAMPLES NA		DISTURBED		UNDISTURBED	
		19. TOTAL NUMBER OF CORE BOXES NA			
20. SAMPLES FOR CHEMICAL ANALYSIS NA		VOC		METALS	
				OTHER (SPECIFY)	
				OTHER (SPECIFY)	
				OTHER (SPECIFY)	
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL	
				OTHER (SPECIFY)	
		X			
		23. SIGNATURE OF INSPECTOR S. Woodland 			

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
	1	CLAY, with silt, CH, very dark grayish brown (10YR 3/2), damp, very stiff consistency, high plasticity.	BZ = 0.0 PID LEL = 0 O <sub>2</sub> = 20.9 0.0	NA	NA	Recovery	Begin @ 0844
	2	CLAY, trace very fine sand, CH, dark grayish brown (10YR 4/2), damp, hard consistency, high plasticity, trace oxidation reddish brown (5YR 5/3).	0.0			4/5	
	3		0.0				
	4	grayish brown (10YR 5/2), moist, stiff consistency	0.0				

# HTW DRILLING LOG

HOLE NO. 027MW025

PROJECT SFAAP - SWMU 27

INSPECTOR S. Woodland

SHEET 2  
OF 3 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
	5	CLAY, trace very fine sand, CH, grayish brown (10YR 5/2), moist, stiff consistency, high plasticity, trace oxidation reddish brown (5YR 5/3).	PID	NA	NA	Recovery	
	6		BZ = 0.0 LEL = 0 O <sub>2</sub> = 20.9 0.0				0846
	7		0.0				
	8		0.0			5/5	
	9		0.0				
	10		BZ = 0.0 LEL = 0 O <sub>2</sub> = 20.9 0.0				0849
	11	with very fine sand, gray (10YR 5/1)	0.0			4.5/4.5	
	12	SAND with fines, SM, gray (10YR 5/1), very fine to fine sand, poorly graded, trace oxidation reddish brown (5YR 5/3)	0.0				

PROJECT SFAAP - SWMU 27

HOLE NO. 027MW025

# HTW DRILLING LOG

HOLE NO.  
027MW025

PROJECT SFAAP - AOC 17

INSPECTOR S. Woodland

SHEET 3  
OF 3 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
	13	SAND with fines, SM, gray (10YR 5/1), very fine to fine sand, poorly graded, trace oxidation reddish brown (5YR 5/3).	PID 0.0	NA	NA	Recovery	▽
	14	SHALE, medium light gray (N6), wet, trace mottle yellowish brown (10YR 5/4). moist				4.5/4.5	
	15	HSA Refusal @ 14.5 ft					0910
	16						DP Refusal @ 14.5 ft
	17						0854 Begin HSA Drilling
	18						Construct Temporary Piezometer . 027BMPZ001
	19						
	20						

# Monitoring Well Construction Diagram

<b>Project Number:</b> 138163	<b>Monitoring Well ID:</b> 027BMPZ001 / 027MW025
<b>Project Name:</b> SFAAP	<b>Property Owner:</b> SRL
<b>Geologist:</b> S. Woodland	<b>Northing:</b> 231281.40
<b>Drilling Company:</b> RAZEK Environmental	<b>Easting:</b> 2156840.88
<b>Driller:</b> T. Poulter	<b>Survey Datum:</b> Kansas State Plane North Zone / NAVD 1988

Drilling Method: HSA  
Borehole Diameter: 7.25"

## Elevations (amsl)

Top of Casing (TOC)	915.46
Ground Surface (GS)	913.22
Reference Point (RP)	TOC

## Dates

Drilling/Installation Start	9/26/2024
Installation Complete	9/26/2024
Well Abandoned	NA
Development Start	NA
Development Complete	NA

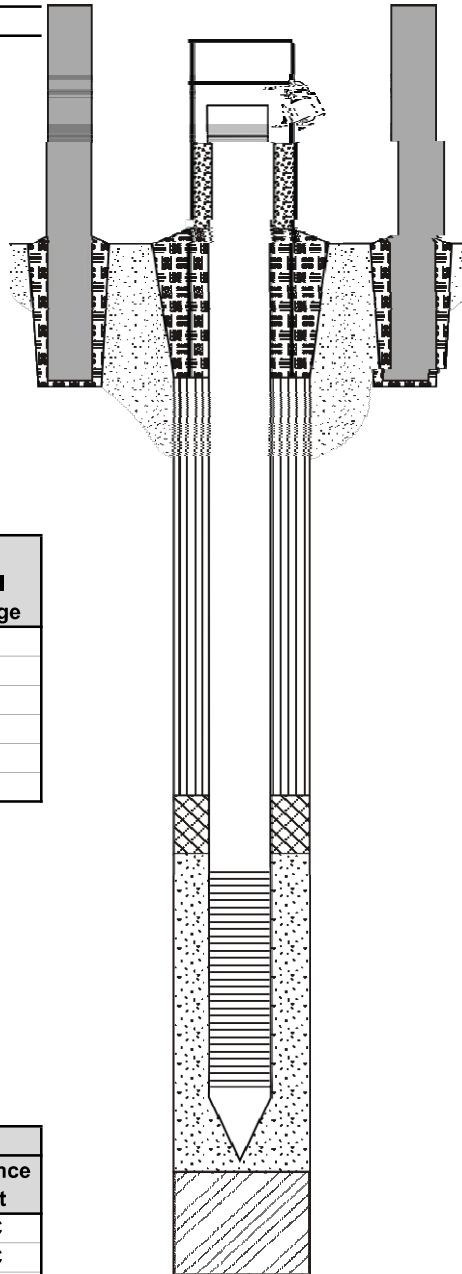
Annular Material Measurements	Depth to Top from GS	Total Footage
Annular Seal		
Bentonite Seal	0	6.0
Secondary Filter Pack		
Filter Pack	6	8.5
Backfill		
Bottom of Borehole	14.5	NA

Casing Materials Measurements	Total Footage
Total Riser Installed	11.88
Total Riser Cutoff	0.00
Screen	5.00
Bottom Cap	0.10
Total Depth from TOC	16.98

## Groundwater Levels

Date	Depth	Reference Point
10/1/2024	NFW	TOC
3/25/2025	13.84	TOC

Comments: NA



Cap Type:	J-Plug
Lock Keyed to:	
Protective Cover:	
Material:	Steel
Size:	4" x 4"
Length:	5 ft
Pea Gravel (Y/N):	N
Weep Hole (Y/N):	N
Guage Mark (Y/N):	Y
Bollards (# and type):	4 / Steel
Surface Pad:	
Dimensions:	2'x2'x1'
Material:	Concrete
Annular Seal:	
Type & Size:	NA
Manufacturer:	NA
Amount Used:	NA
Bentonite Seal:	
Type & Size:	3/8 Chips
Manufacturer:	PDS
Amount Used:	2 bags
Secondary Filter Pack:	
Type & Size:	NA
Manufacturer:	NA
Amount Used:	NA
Primary Filter Pack:	
Type & Size:	12/20 Whole Grain
Manufacturer:	Gillibrand Co. Inc.
Amount Used:	3 bags
Well Casing:	
Type:	PVC
Diameter:	2"
Sch. or Weight:	Sch. 40
Manufacturer:	EMI
Screen Type:	Factory Slotted
Screen Slot Size:	0.010"
Bottom Cap Type:	PVC
Centralizers (Y/N):	N
Material:	NA
Number:	NA
Depth(s):	NA
Backfill Material:	
Type & Size:	NA
Manufacturer:	NA
Amount Used:	NA

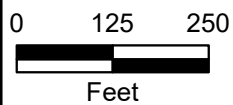


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**Legend**

-  SWMU/AOC
-  Road
-  Monitoring Well



**SWMU 27**  
**Monitoring Well Location Map**  
Former Sunflower Army Ammunition Plant  
DeSoto, Kansas