

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 |
|------|----|---------------------|
| | | |
| | | |
| | | |
| | | |
| | | |
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| | | |

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: _____. |
|---|

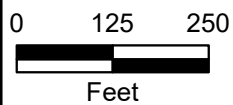
Send one copy to WATER WELL OWNER and retain one for your records. Fee of \$5.00 for each constructed well.

Path: Z:\Clients\IENS\USCOE\138163_SFAAP\2021REF\Studies\Geospatial\Docs\SFAAP_map.mxd



Legend


-  SWMU/AOC
-  Road
-  Monitoring Well



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

HTW DRILLING LOG

HOLE NO.
027MW027

| | | | | | |
|--|--------------------------|---|---|---|-----------------|
| 1. COMPANY NAME Burns & McDonnell | | 2. DRILLING SUBCONTRACTOR RAZEK ENV., Inc. | | SHEET 1 OF 2 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: 2157341.00' N: 230585.18' | | |
| | 7.25 HSA | | 9. SURFACE ELEVATION 898.44' | | |
| | | | 10. DATE STARTED 3/25/25 | | |
| | | | 11. DATE COMPLETED 3/25/25 | | |
| 12. OVERBURDEN THICKNESS 6.7 ft | | 15. DEPTH GROUNDWATER ENCOUNTERED NA | | | |
| 13. DEPTH DRILLED INTO ROCK 2.3 ft | | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED NA | | | |
| 14. TOTAL DEPTH OF HOLE 9.0 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) | 23. SIGNATURE OF INSPECTOR | |
| | | 027MW027 | | 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 |
|------------|------------|---|--|--|-------------------------------|---------------------|--------------|
| | | SILT, with clay, CL, very dark grayish brown (10YR 3/2), damp, stiff consistency, medium plasticity. | BZ = 0.0 PID LEL = 0 O ₂ = 20.9 0.0 | NA | NA | Recovery | Begin @ 0938 |
| | 1 | CLAY, trace silt, CH, brown (10YR 5/3) moist, very stiff consistency, high plasticity, trace oxidation reddish brown (5YR 5/3). | 0.0 | | | | |
| | 2 | | 0.0 | | | 5/5 | |
| | 3 | | 0.0 | | | | |
| | 4 | | 0.0 | | | | |
| | | hard consistency | | | | | |

HTW DRILLING LOG

HOLE NO. 027MW027

PROJECT SFAAP - SWMU 27

INSPECTOR S. Woodland

SHEET 2
OF 2 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 silt, CH, brown (10YR 5/3) moist, hard consistency, high plasticity, trace oxidation reddish brown (5YR 5/3). | PID | NA | NA | Recovery | |
| | 6 | | BZ = 0.0 LEL = 0 O ₂ = 20.9 0.0 | | | 2/2 | 0940 |
| | 7 | SAND, with fines, SM, yellowish brown (10YR 5/8), very fine sand, poorly graded, poorly cemented. LIMESTONE, medium light gray (N7). | 0.0 | | | | DP Refusal @ 7.0 ft |
| | 8 | | NA | | | NA | 0948 Begin HSA Drilling |
| | 9 | | | | | | 1002 |
| | 10 | HSA Refusal @ 9.0 ft | | | | | Monitoring Well |
| | 11 | | | | | | |
| | 12 | | | | | | |

Monitoring Well Construction Diagram

| | |
|--|--|
| Project Number: 138163 | Monitoring Well ID: 027MW027 |
| Project Name: SFAAP | Property Owner: SRL |
| Geologist: S. Woodland | Northing: 230585.18 |
| Drilling Company: RAZEK Environmental | Easting: 2157341.00 |
| Driller: T. Poulter | Survey Datum: Kansas State Plane North Zone / NAVD 1988 |

Drilling Method: HSA
Borehole Diameter: 7.25"

Elevations (amsl)

| | |
|----------------------|--------|
| Top of Casing (TOC) | 900.74 |
| Ground Surface (GS) | 898.44 |
| Reference Point (RP) | TOC |

Dates

| | |
|-----------------------------|-----------|
| Drilling/Installation Start | 3/25/2025 |
| Installation Complete | 3/25/2025 |
| Well Abandoned | NA |
| Development Start | NA |
| Development Complete | NA |

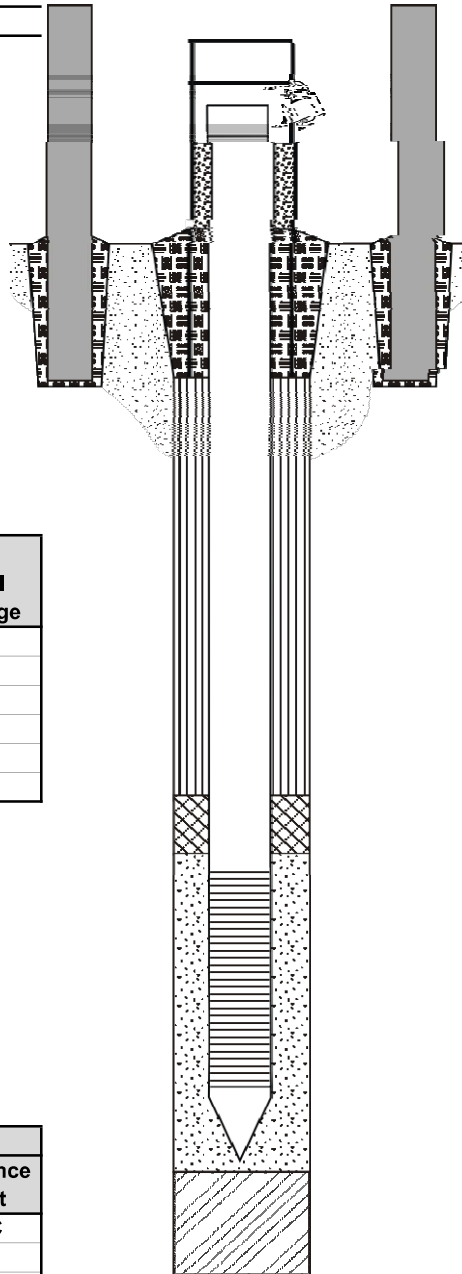
| Annular Material Measurements | Depth to Top from GS | Total Footage |
|-------------------------------|----------------------|---------------|
| Annular Seal | | |
| Bentonite Seal | 0 | 4.5 |
| Secondary Filter Pack | | |
| Filter Pack | 4.5 | 4.5 |
| Backfill | | |
| Bottom of Borehole | 9 | NA |

| Casing Materials Measurements | Total Footage |
|-------------------------------|---------------|
| Total Riser Installed | 8.30 |
| Total Riser Cutoff | 0.00 |
| Screen | 3.00 |
| Bottom Cap | 0.10 |
| Total Depth from TOC | 11.40 |

Groundwater Levels

| Date | Depth | Reference Point |
|-----------|-------|-----------------|
| 3/25/2025 | NFW | 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: | 1 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: | 2 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 |