

WATER WELL RECORD Form WWC-5

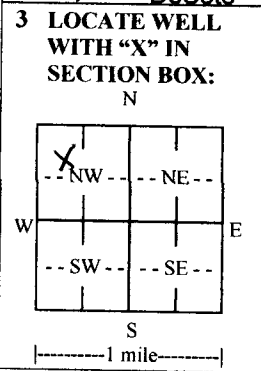
Original Record Correction Change in Well Use

Division of Water Resources App. No.

Well ID 57 MW 4

1 LOCATION OF WATER WELL: County: Johnson Fraction 1/4 1/4 NW 1/4 NW 1/4 Section Number 7 Township Number T 13 S Range Number R 22 E W

2 WELL OWNER: Last Name: Sunflower Army Ammunition Plant First: Address: 35425 W. 103rd Street City: DeSoto State: KS ZIP: 66018 Street or Rural Address where well is located...



3 LOCATE WELL WITH 'X' IN SECTION BOX: 4 DEPTH OF COMPLETED WELL: 22.0 ft. Depth(s) Groundwater Encountered: 1) 24 ft. 2) N/A ft. 3) N/A ft. or 4) Dry Well...

5 Latitude: 38.9352444 (decimal degrees) Longitude: -95.0110758 (decimal degrees) Horizontal Datum: WGS 84 NAD 83 NAD 27 Source for Latitude/Longitude: GPS (unit make/model) (WAAS enabled? Yes No) Land Survey Topographic Map Online Mapper

7 WELL WATER TO BE USED AS: 1. Domestic: Household Lawn & Garden Livestock Irrigation Feedlot Industrial 5. Public Water Supply: well ID 6. Dewatering: how many wells? 7. Aquifer Recharge: well ID 8. Monitoring: well ID 057MW04 9. Environmental Remediation: well ID Air Sparge Soil Vapor Extraction Recovery Injection 10. Oil Field Water Supply: lease 11. Test Hole: well ID Cased Uncased Geotechnical 12. Geothermal: how many bores? a) Closed Loop Horizontal Vertical b) Open Loop Surface Discharge Inj. of Water 13. Other (specify):

Was a chemical/bacteriological sample submitted to KDHE? Yes No If yes, date sample was submitted: Water well disinfected? Yes No

8 TYPE OF CASING USED: Steel PVC Other CASING JOINTS: Glued Clamped Welded Threaded Casing diameter 2 in. to 10 ft., Diameter N/A in. to N/A ft., Diameter N/A in. to N/A ft. Casing height above land surface 30 in. Weight N/A lbs./ft. Wall thickness or gauge No. Sch. 40

TYPE OF SCREEN OR PERFORATION MATERIAL: Steel Stainless Steel Fiberglass PVC Brass Galvanized Steel Concrete tile None used (open hole) SCREEN OR PERFORATION OPENINGS ARE: Continuous Slot Mill Slot Gauze Wrapped Torch Cut Drilled Holes Other (Specify) Louvered Shutter Key Punched Wire Wrapped Saw Cut None (Open Hole)

SCREEN-PERFORATED INTERVALS: From 10 ft. to 22.0 ft., From N/A ft. to N/A ft., From N/A ft. to N/A ft. GRAVEL PACK INTERVALS: From 8 ft. to 22.0 ft., From N/A ft. to N/A ft., From N/A ft. to N/A ft.

9 GROUT MATERIAL: Neat cement Cement grout Bentonite Other Concrete 0 to 2 Grout Intervals: From 2 ft. to 8 ft., From N/A ft. to N/A ft., From N/A ft. to N/A ft.

Nearest source of possible contamination: Septic Tank Lateral Lines Pit Privy Livestock Pens Insecticide Storage Sewer Lines Cess Pool Sewage Lagoon Fuel Storage Abandoned Water Well Watertight Sewer Lines Seepage Pit Feedyard Fertilizer Storage Oil Well/Gas Well Other (Specify)

Direction from well? Distance from well? ft.

Table with columns: 10 FROM, TO, LITHOLOGIC LOG, FROM, TO, LITHO. LOG (cont.) or PLUGGING INTERVALS. Includes a 'Notes' section.

11 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was constructed, reconstructed, or plugged under my jurisdiction and was completed on (mo-day-year) 11-4-2019 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 759 This Water Well Record was completed on (mo-day-year) 1-18-2020 under the business name of RAZEK Environmental, LLC. Signature

Johnson

7-13-22E

HTW DRILLING LOG

HOLE NO.
057 MW 004

PROJECT
SMMU 57

INSPECTOR
Ryan Russell

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
	6	damp, medium plastic, stiff non medium	0				
	7						
	8		0				
	9	inc. sand contents					$B_{70} = LEL = 0\%$ $O_{70} = 20.9\%$ $C_{70} = 0.0$ 1008
	10						
	11		0				
	12	moist					
	13		0				
	14	fine sand with trace clay + silt, light gray (10 yr 7/1), dark discoloration + ferric iron coloration throughout, non plastic, moist, stiff					

PROJECT

HOLE NO.

Johnson

7-13-22E

HTW DRILLING LOG

HOLE NO.
057 MW 204

PROJECT
SWMU 57

INSPECTOR
Ryan Russell

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
	15		0				1010
	16	fine sand with trace silt + clay, light gray (10yr 7/8), less ferrous iron discoloration, moist, stiff consistency, non plastic SC					
	17		0				
	18						
	19	dark discoloration present	0				
	20	inc in amount of dark discoloration	0				B _d = LEL = 0% O ₂ = 20.9% CO = 0.0
	21	shale, dark yellowish orange (10yr 6/8) black discoloration, moist, medium plasticity, medium consistency limestone chips present					1035
	22	Refusal @ 21.5 ft bgs					
	23						

Johnson

7-13-22E

HTW DRILLING LOG

HOLE NO.
057MWOJ4

1. COMPANY NAME
Burns & McDonnell

2. DRILLING SUBCONTRACTOR
Rozek Environmental LLC

SHEET 1
OF 3 SHEETS

3. PROJECT
SFAAP

4. LOCATION
SWMU 57

5. NAME OF DRILLER
Tony Povlter

6. MANUFACTURER'S DESIGNATION OF DRILL

7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT

Hollow Stem Auger

8. HOLE LOCATION

9. SURFACE ELEVATION

10. DATE STARTED
11/4/19

11. DATE COMPLETED
11/4/19

12. OVERBURDEN THICKNESS
22.5'

15. DEPTH GROUNDWATER ENCOUNTERED

13. DEPTH DRILLED INTO ROCK
0'

16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED
19.78', ~17 hrs after drilling

14. TOTAL DEPTH OF HOLE
22.5'

17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)

18. GEOTECHNICAL SAMPLES
N/A

DISTURBED

UNDISTURBED

19. TOTAL NUMBER OF CORE BOXES

20. SAMPLES FOR CHEMICAL ANALYSIS
N/A

VOC

METALS

OTHER (SPECIFY)

OTHER (SPECIFY)

OTHER (SPECIFY)

21. TOTAL CORE RECOVERY %

22. DISPOSITION OF HOLE

BACKFILLED

MONITORING WELL

OTHER (SPECIFY)

23. SIGNATURE OF INSPECTOR
Ryan Powell

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, gravel present in top 6", black (10yr 3/4), lightly plastic, damp, soft	0			4/5 ft recovery	1008 Begin drilling
	2	CLAY with silt, light brownish gray (10 yr 6/2) with dark mottling, medium plastic, damp, medium consistency	0				B2: LEL=0% O2=20.9% CO=0.0
	3						
	4						
	5	CLAY with sand and silt, gray (10 yr 2/1), clay with ferrous iron + dark mottling	0				1006

PROJECT
vening CL

HOLE NO.