

WATER WELL RECORD Form WWC-5

Division of Water Resources App. No.

[]

Well ID

MW-47B

Original Record Correction Change in Well Use

1 LOCATION OF WATER WELL: County: Johnson Fraction SE 1/4 SE 1/4 NW 1/4 1/4 Section Number 36 Township Number T 13 S Range Number R 23 E W

2 WELL OWNER: Last Name: First: Street or Rural Address where well is located (if unknown, distance and direction from nearest town or intersection): If at owner's address, check here: [] Corner of S. Parkway Dr. and E. Glendale St.

3 LOCATE WELL WITH "X" IN SECTION BOX: N W E S 1 mile

4 DEPTH OF COMPLETED WELL: 17 ft. Depth(s) Groundwater Encountered: 1) 5 ft. 2) 5 ft. 3) 5 ft. or 4) Dry Well WELL'S STATIC WATER LEVEL: 4.98 ft. below land surface, measured on (mo-day-yr) 6/19/17

5 Latitude: 38°52'41.8604" (decimal degrees) Longitude: -094°48'29.0523" (decimal degrees) Horizontal Datum: [X] WGS 84 [] NAD 83 [] NAD 27 Source for Latitude/Longitude: [] GPS (unit make/model: (WAAS enabled? [] Yes [] No) [X] Land Survey [] Topographic Map [] Online Mapper:

6 Elevation: 1038.33 ft. [] Ground Level [X] TOC Source: [X] Land Survey [] GPS [] Topographic Map [] Other

7 WELL WATER TO BE USED AS: 1. Domestic: [] Household [] Lawn & Garden [] Livestock [] Irrigation [] Feedlot [] Industrial 2. [] Public Water Supply: well ID 3. [] Dewatering: how many wells? 4. [] Aquifer Recharge: well ID 5. [] Monitoring: well ID MW-47B 6. [] Environmental Remediation: well ID 7. [] Air Sparge [] Soil Vapor Extraction 8. [] Recovery [] Injection 9. [] Oil Field Water Supply: lease 10. [] Test Hole: well ID [] Cased [] Uncased [] Geotechnical 11. [] Geothermal: how many bores? a) Closed Loop [] Horizontal [] Vertical b) Open Loop [] Surface Discharge [] Inj. of Water 12. [] Other (specify):

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

8 TYPE OF CASING USED: [] Steel [X] PVC [] Other CASING JOINTS: [] Glued [] Clamped [] Welded [X] Threaded Casing diameter 4 in. to 17 ft., Diameter in. to ft., Diameter in. to ft., Diameter in. to ft. Casing height above land surface 0.38 in. Weight lbs./ft. Wall thickness or gauge No. Sch 40 TYPE OF SCREEN OR PERFORATION MATERIAL: [] Steel [] Stainless Steel [] Fiberglass [X] PVC [] Other (Specify) [] Brass [] Galvanized Steel [] Concrete tile [] None used (open hole) SCREEN OR PERFORATION OPENINGS ARE: [] Continuous Slot [X] 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 7 ft. to 17 ft., From ft. to ft., From ft. to ft. GRAVEL PACK INTERVALS: From 5 ft. to 25 ft., From ft. to ft., From ft. to ft.

9 GROUT MATERIAL: [] Neat cement [] Cement grout [X] Bentonite [] Other Grout Intervals: From 1.0 ft. to 5.0 ft., From ft. to ft., From ft. to 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 [X] Other (Specify) Former Chemical Storage Direction from well? W Distance from well? ~500 ft.

Table with 6 columns: 10 FROM, TO, LITHOLOGIC LOG, FROM, TO, LITHO. LOG (cont.) or PLUGGING INTERVALS. Rows include Pavement and gravel, Silty clay, Clay, Weathered sandstone, Weathered shale, Limestone, Crystalline limestone.

11 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was [X] constructed, [] reconstructed, or [] plugged under my jurisdiction and was completed on (mo-day-year) 5/17/2017 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 597. This Water Well Record was completed on (mo-day-year) 8/28/17 under the business name of Cascade Signature Steve Johnson

HALEY ALDRICH TEST BORING REPORT

BORING NO. **MW-413**

Page 1 of 1

PROJECT: Former Chemical Commodities, Inc. Site
 LOCATION: 0 1st W, KS
 CLIENT: The Sealing Company
 CONTRACTOR: Cascade Drilling & P - Jason Drake

H&A FILE NO. 129498-802
 PROJECT MGR. Michael Paset
 FIELD REP. J. Knierly
 DATE STARTED 5/17/17
 DATE FINISHED 5/17/17

Elevation	ft. Datum	Boring Location	<u>Corner of S. Parkway Dr. + E. Glendale St.</u>	
Item	Casing	Sampler	Core Barrel	Rig Make & Model
Type				
Inside Diameter (in.)				
Hammer Weight (lb.)				
Hammer Fall (in.)				

Depth (ft.)	Sampler Blows per 6 in.	Sample No. & Recovery (in.)	Sample Depth (ft.)	Well Diagram	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand		Field Test							
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength		
0		28.5 ppm					Passment + Gravel												
5	10%	6.5 ppm						Dark Gray/black silty clay, moist, medium stiff to stiff, medium plastic to plastic, no noticeable odor, minor Fe-mottling											
10	1041	17.4 ppm						Dark green/grey silty clay, moist, medium stiff to stiff, medium plastic to plastic, no noticeable odor, minor Fe-mottling											
15		2.3 ppm						Gradual brown clay, moist, very stiff, very plastic-hard, some Fe-mottling											
20	1108	0.5 ppm						tan, silty sandstone, dry to damp, very weathered, stiff, plastic, no noticeable odor, well sorted											
25	1118	4.2 ppm						tan, silty sandstone, dry to damp, very weathered, stiff, plastic, no noticeable odor, well sorted											
		1.7 ppm					Cracks to light gray, weathered shale, laminations, moist, soft to medium stiff, slightly plastic to plastic, medium plastic, no noticeable odor												
		10.2 ppm					Gray tan limestone (6-15 ft), dry, slight to moderate fossiliferous, small nodules, appear competent												
		13.8 ppm					Red Flint sand + gravel filler + industrial sand												
		5.8 ppm					Gray crystalline limestone, dry, slight to moderate fossiliferous, competent												
		13.1 ppm																	
		Sampler Sealed Using M1112AE 2000																	

Water Level Data			Sample ID			Well Diagram			Summary		
Date	Time	Elapsed Time (hr.)	Depth in feet to:			<input type="checkbox"/> Open End Rod <input type="checkbox"/> Thin Wall Tube <input type="checkbox"/> Undisturbed Sample <input type="checkbox"/> Split Spoon Sample <input type="checkbox"/> Geoprobe	<input type="checkbox"/> Riser Pipe <input type="checkbox"/> Screen <input type="checkbox"/> Filter Sand <input type="checkbox"/> Cuttings <input type="checkbox"/> Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Bentonite Seal	Overburden (Linear ft.)			
5/17/17	1135	0.5	Bottom of Casing	Bottom of Hole	Water			Rock Cored (Linear ft.)			
								Number of Samples			
								BORING NO.			
Field Tests			Dilatancy: R - Rapid S - Slow N - None			Plasticity: N - Nonplastic L - Low M - Medium H - High			Toughness: L - Low M - Medium H - High V - Very High		
NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size. NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.											

RECEIVED

JAN 31 2019

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