

WATER WELL RECORD Form WWC-5

Division of Water Resources App. No.

Well ID

Original Record Correction Change in Well Use

1 LOCATION OF WATER WELL: County: Miami	Fraction $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$	Section Number 11	Township Number T 18 S	Range Number R 22 <input checked="" type="checkbox"/> E <input type="checkbox"/> W
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2 WELL OWNER: Last Name: Union Pacific Railroad Business: Union Pacific Railroad Address: 1400 Douglas Street City: Omaha State: NE ZIP: 68179	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: <input type="checkbox"/> Former MP Yard 820 Sixth Street, Osawatomie, KS 66064
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3 LOCATE WELL WITH "X" IN SECTION BOX: N <table style="width: 100%; text-align: center; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 5px;">NW</td> <td style="border: 1px solid black; padding: 5px;">NE</td> </tr> <tr> <td style="border: 1px solid black; padding: 5px;">SW</td> <td style="border: 1px solid black; padding: 5px;">SE</td> </tr> </table> S W ----- 1 mile ----- E	NW	NE	SW	SE	4 DEPTH OF COMPLETED WELL: 30 ft. Depth(s) Groundwater Encountered: 1) 15 ft. 2) ... N/A ... ft. 3) ... N/A ... ft., or 4) <input type="checkbox"/> Dry Well WELL'S STATIC WATER LEVEL: 14.88 ft. <input checked="" type="checkbox"/> below land surface, measured on (mo-day-yr) 11-9-2015 <input type="checkbox"/> above land surface, measured on (mo-day-yr) N/A Pump test data: Well water was N/A ft. after N/A hours pumping N/A gpm Well water was N/A ft. after N/A hours pumping N/A gpm Estimated Yield: N/A gpm Bore Hole Diameter: 8.25 in. to 30 ft. and N/A in. to N/A ft.	5 Latitude: 38.491487 (decimal degrees) Longitude: -94.952172 (decimal degrees) Horizontal Datum: <input type="checkbox"/> WGS 84 <input checked="" type="checkbox"/> NAD 83 <input type="checkbox"/> NAD 27 Source for Latitude/Longitude: <input type="checkbox"/> GPS (unit make/model:) (WAAS enabled? <input type="checkbox"/> Yes <input type="checkbox"/> No) <input type="checkbox"/> Land Survey <input type="checkbox"/> Topographic Map <input checked="" type="checkbox"/> Online Mapper: Google Earth
NW	NE					
SW	SE					
6 Elevation: 856 ft. <input checked="" type="checkbox"/> Ground Level <input type="checkbox"/> TOC Source: <input type="checkbox"/> Land Survey <input type="checkbox"/> GPS <input type="checkbox"/> Topographic Map <input checked="" type="checkbox"/> Other Google Earth						

7 WELL WATER TO BE USED AS:

1. Domestic: <input type="checkbox"/> Household <input type="checkbox"/> Lawn & Garden <input type="checkbox"/> Livestock 2. <input type="checkbox"/> Irrigation 3. <input type="checkbox"/> Feedlot 4. <input type="checkbox"/> Industrial	5. <input type="checkbox"/> Public Water Supply: well ID 6. <input type="checkbox"/> Dewatering: how many wells? 7. <input type="checkbox"/> Aquifer Recharge: well ID 8. <input checked="" type="checkbox"/> Monitoring: well ID MW-23 9. Environmental Remediation: well ID <input type="checkbox"/> Air Sparge <input type="checkbox"/> Soil Vapor Extraction <input type="checkbox"/> Recovery <input type="checkbox"/> Injection	10. <input type="checkbox"/> Oil Field Water Supply: lease 11. Test Hole: well ID <input type="checkbox"/> Cased <input type="checkbox"/> Uncased <input type="checkbox"/> Geotechnical 12. Geothermal: how many bores? a) Closed Loop <input type="checkbox"/> Horizontal <input type="checkbox"/> Vertical b) Open Loop <input type="checkbox"/> Surface Discharge <input type="checkbox"/> Inj. of Water 13. <input type="checkbox"/> Other (specify):
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Was a chemical/bacteriological sample submitted to KDHE? Yes No If yes, date sample was submitted: **N/A**

Water well disinfected? Yes No

8 TYPE OF CASING USED: Steel PVC Other CASING JOINTS: Glued Clamped Welded Threaded

Casing diameter **2** in. to **20** ft., Diameter **N/A** in. to **N/A** ft., Diameter **N/A** in. to **N/A** ft.

Casing height above land surface **0** in. Weight **N/A** lbs./ft. Wall thickness or gauge No. **Sch 40**

TYPE OF SCREEN OR PERFORATION MATERIAL:
 Steel Stainless Steel Fiberglass PVC Other (Specify)
 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 **20** ft. to **30** ft., From **N/A** ft. to **N/A** ft., From **N/A** ft. to **N/A** ft.

GRAVEL PACK INTERVALS: From **18** ft. to **30** 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 0-2 feet**

Grout Intervals: From **2** ft. to **18** 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) **Railroad Yard**
 Direction from well? **North** Distance from well? **<100** feet ft.

10 FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHO. LOG (cont.) or PLUGGING INTERVALS
0	5	Topsoil, fil, clay			
5	10	Dark Grey clay stiff moist trace gravel			
10	15	Brown clay moist			
15	16	Grey slough			
16	27	Brown clay soft moist			
27	30	Brown clay with gravel and some fine sand			
			Notes:		

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) **10-13-2015** 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) **1-16-16** under the business name of **RAZEK Environmental, LLC** Signature *[Signature]*