

**WATER WELL RECORD Form WWC-5**

Division of Water Resources App. No.

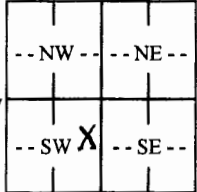
MW-29d

Original Record  Correction  Change in Well Use

Well ID

<b>1 LOCATION OF WATER WELL:</b> County: <b>Sedgwick</b>	Fraction <b>SW ¼ SE ¼ NE ¼ SW ¼</b>	Section Number <b>15</b>	Township Number <b>T 25 S</b>	Range Number <b>R 1 <input checked="" type="checkbox"/> E <input type="checkbox"/> W</b>
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<b>2 WELL OWNER:</b> Last Name: _____ First: _____ Business: <b>Union Pacific Railroad</b> Address: <b>1400 W. 52nd Ave.</b> Address: _____ City: <b>Denver</b> State: <b>CO</b> ZIP: <b>80221</b>	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"/> <b>Murdock &amp; Spruce, Wichita</b>
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<b>3 LOCATE WELL WITH "X" IN SECTION BOX:</b> N  W _____ E S -----1 mile-----	<b>4 DEPTH OF COMPLETED WELL:</b> ..... <b>38</b> ..... ft. Depth(s) Groundwater Encountered: 1) ..... <b>12.5</b> ..... ft. 2) ..... ft. 3) ..... ft., or 4) <input type="checkbox"/> Dry Well WELL'S STATIC WATER LEVEL: ..... ft. <input type="checkbox"/> below land surface, measured on (mo-day-yr) ..... <input type="checkbox"/> above land surface, measured on (mo-day-yr) ..... Pump test data: Well water was ..... ft. after ..... hours pumping ..... gpm Well water was ..... ft. after ..... hours pumping ..... gpm Estimated Yield: ..... gpm Bore Hole Diameter: ..... <b>8</b> ..... in. to ..... <b>38</b> ..... ft. and ..... <b>2</b> ..... in. to ..... <b>40</b> ..... ft.	<b>5 Latitude:</b> ..... <b>37.697660</b> ..... (decimal degrees) <b>Longitude:</b> ..... <b>-97.309454</b> ..... (decimal degrees) <b>Horizontal Datum:</b> <input checked="" type="checkbox"/> WGS 84 <input type="checkbox"/> NAD 83 <input type="checkbox"/> NAD 27 <b>Source for Latitude/Longitude:</b> <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: <b>Google Earth</b>
<b>6 Elevation:</b> ..... ft. <input type="checkbox"/> Ground Level <input type="checkbox"/> TOC <b>Source:</b> <input type="checkbox"/> Land Survey <input type="checkbox"/> GPS <input type="checkbox"/> Topographic Map <input type="checkbox"/> Other		

**7 WELL WATER TO BE USED AS:**

1. Domestic: <input type="checkbox"/> Household <input type="checkbox"/> Lawn & Garden <input type="checkbox"/> Livestock	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 ..... <b>MW-29d</b>	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
2. <input type="checkbox"/> Irrigation	9. Environmental Remediation: well ID ..... <input type="checkbox"/> Air Sparge <input type="checkbox"/> Soil Vapor Extraction <input type="checkbox"/> Recovery <input type="checkbox"/> Injection	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
3. <input type="checkbox"/> Feedlot		13. <input type="checkbox"/> Other (specify): .....
4. <input type="checkbox"/> Industrial		

**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 ..... **28** ..... ft., Diameter ..... in. to ..... ft., Diameter ..... in. to ..... ft.  
Casing height above land surface ..... **0** ..... in. Weight ..... 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 ..... **28** ..... ft. to ..... **38** ..... ft., From ..... ft. to ..... ft., From ..... ft. to ..... ft.  
**GRAVEL PACK INTERVALS:** From ..... **26** ..... ft. to ..... **40** ..... ft., From ..... ft. to ..... ft., From ..... ft. to ..... ft.

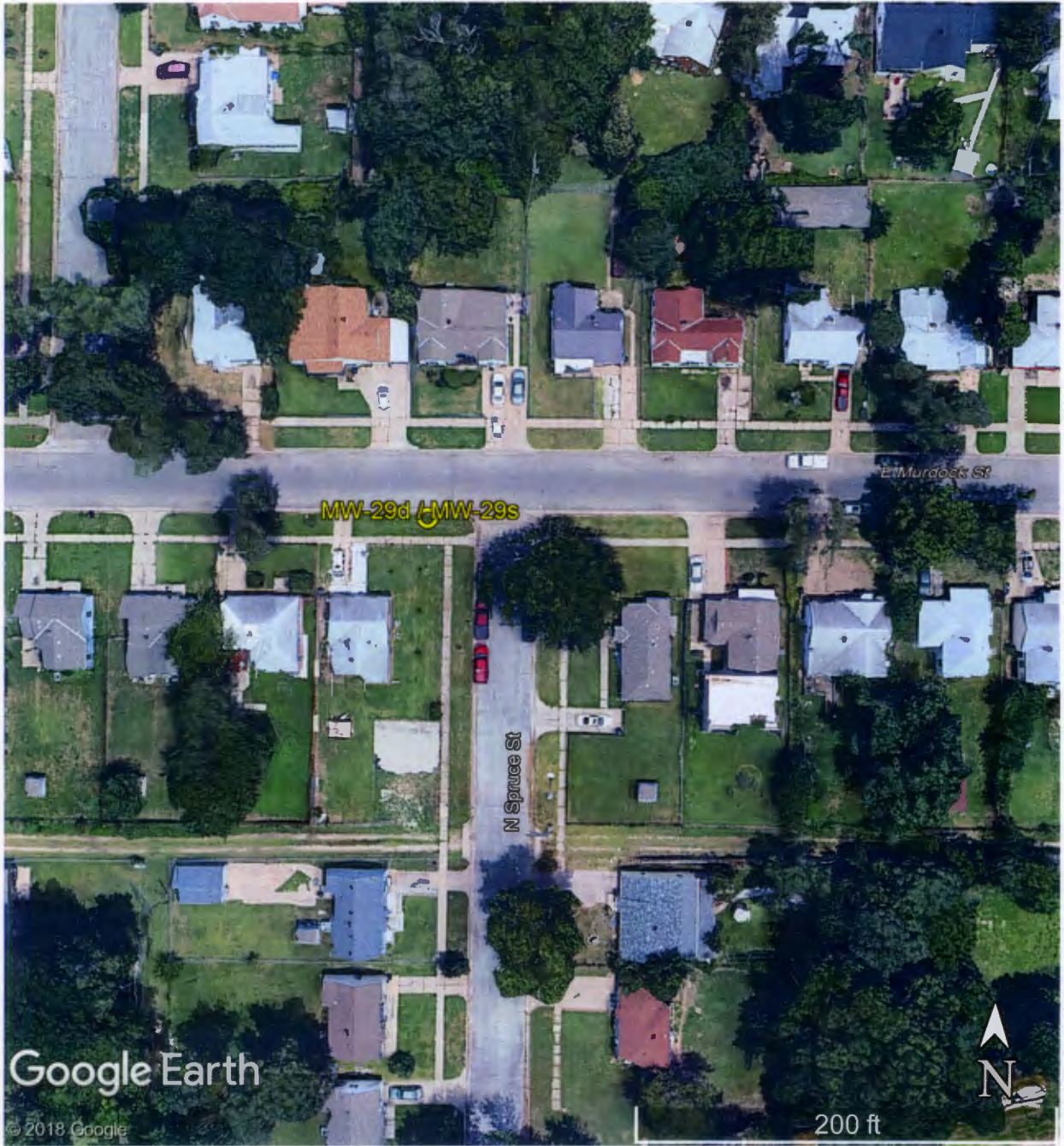
**9 GROUT MATERIAL:**  Neat cement  Cement grout  Bentonite  Other **Concrete**  
Grout Intervals: From ..... **0** ..... ft. to ..... **1** ..... ft., From ..... **1** ..... ft. to ..... **26** ..... ft., From ..... ft. to ..... ft.

**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  
 Other (Specify) .....

Direction from well? ..... Distance from well? ..... ft.

10 FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHO. LOG (cont.) or PLUGGING INTERVALS
1	0.5	Grass, topsoil			
0.5	5	Clay, silty			
5	7.5	Silt, Beige Brown			
7.5	12.5	Sand, f, silty, Beige			
12.5	15	Clay, silty, Beige Gray w/Lt. Gray			
15	17.5	Sand, f, silty			
17.5	38.5	Sand, m-c			<b>Notes:</b>
38.5	40	Shale, wthrd., Gray			

**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) **1/24/2018** ..... and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. **527** ..... This Water Well Record was completed on (mo-day-year) **1/29/2018** ..... under the business name of **GeoCore Inc.** ..... Signature *[Signature]*



Project Name: 29<sup>th</sup> & Grove, Wichita (Arcadis)  
For Union Pacific Railroad  
Location: Murdock & Spruce, Wichita

GPS Coordinates:

MW-29d and MW-29s: 37.697660, -97.309454

RECEIVED  
FEB 09 2018  
BUREAU OF WATER