

**WATER WELL RECORD Form WWC-5**

Division of Water Resources App. No.

MW4

Original Record  Correction  Change in Well Use

Well ID

<b>1 LOCATION OF WATER WELL:</b> County: <b>Seward</b>	Fraction NW ¼ NE ¼ NE ¼ NW ¼	Section Number <b>6</b>	Township Number T <b>35 S</b>	Range Number R <b>33</b> <input type="checkbox"/> E <input checked="" type="checkbox"/> W
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<b>2 WELL OWNER:</b> Last Name: <b>Kansas Dept of Health &amp; Environment</b> Business: <b>Kansas Dept of Health &amp; Environment</b> Address: <b>1000 SW Jackson Street</b> Address: City: <b>Topeka</b> State: <b>KS</b> ZIP: <b>66612-1367</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>~230' W &amp; 45' S of 2nd &amp; General Welch, Liberal</b>
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<b>3 LOCATE WELL WITH "X" IN SECTION BOX:</b> N <table style="width: 100%; text-align: center; border-collapse: collapse;"> <tr><td style="border: 1px solid black; width: 25px; height: 25px;"></td><td style="border: 1px solid black; width: 25px; height: 25px; text-align: center;">X</td><td style="border: 1px solid black; width: 25px; height: 25px;"></td></tr> <tr><td style="border: 1px solid black; width: 25px; height: 25px; text-align: center;">-- NW --</td><td style="border: 1px solid black; width: 25px; height: 25px;"></td><td style="border: 1px solid black; width: 25px; height: 25px; text-align: center;">-- NE --</td></tr> <tr><td style="border: 1px solid black; width: 25px; height: 25px;"></td><td style="border: 1px solid black; width: 25px; height: 25px;"></td><td style="border: 1px solid black; width: 25px; height: 25px;"></td></tr> <tr><td style="border: 1px solid black; width: 25px; height: 25px; text-align: center;">W</td><td style="border: 1px solid black; width: 25px; height: 25px;"></td><td style="border: 1px solid black; width: 25px; height: 25px; text-align: center;">E</td></tr> <tr><td style="border: 1px solid black; width: 25px; height: 25px; text-align: center;">-- SW --</td><td style="border: 1px solid black; width: 25px; height: 25px;"></td><td style="border: 1px solid black; width: 25px; height: 25px; text-align: center;">-- SE --</td></tr> <tr><td style="border: 1px solid black; width: 25px; height: 25px;"></td><td style="border: 1px solid black; width: 25px; height: 25px;"></td><td style="border: 1px solid black; width: 25px; height: 25px;"></td></tr> <tr><td style="border: 1px solid black; width: 25px; height: 25px;"></td><td style="border: 1px solid black; width: 25px; height: 25px; text-align: center;">S</td><td style="border: 1px solid black; width: 25px; height: 25px;"></td></tr> </table> S  ----- 1 mile -----		X		-- NW --		-- NE --				W		E	-- SW --		-- SE --					S		<b>4 DEPTH OF COMPLETED WELL:</b> ..... <b>250</b> ..... ft. Depth(s) Groundwater Encountered: 1) ..... ft. 2) ..... ft. 3) ..... ft., or 4) <input type="checkbox"/> Dry Well WELL'S STATIC WATER LEVEL: ..... <b>199.50</b> ..... ft. <input type="checkbox"/> below land surface, measured on (mo-day-yr) <b>8/7/2019</b> . <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>8.75</b> in. to <b>254</b> ft. and ..... in. to ..... ft.	<b>5 Latitude:</b> ..... <b>37.03954</b> ..... (decimal degrees) <b>Longitude:</b> ..... <b>-100.95111</b> ..... (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 checked="" type="checkbox"/> Land Survey <input type="checkbox"/> Topographic Map <input type="checkbox"/> Online Mapper: .....  <b>6 Elevation:</b> <b>2865.31</b> ..... ft. <input checked="" type="checkbox"/> Ground Level <input type="checkbox"/> TOC Source: <input checked="" type="checkbox"/> Land Survey <input type="checkbox"/> GPS <input type="checkbox"/> Topographic Map <input type="checkbox"/> Other .....
	X																						
-- NW --		-- NE --																					
W		E																					
-- SW --		-- SE --																					
	S																						

**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 <b>MW4</b> ..... 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: .....

Water well disinfected?  Yes  No

**8 TYPE OF CASING USED:**  Steel  PVC  Other ..... CASING JOINTS:  Glued  Clamped  Welded  Threaded  
 Casing diameter ..... **4** ..... in. to **230** ..... ft., Diameter ..... in. to ..... ft., Diameter ..... in. to ..... ft.  
 Casing height above land surface ..... **-6.6** ..... in. Weight ..... lbs./ft. Wall thickness or gauge No. **Sch. 80** .....

**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 **230** ..... ft. to **250** ..... ft., From ..... ft. to ..... ft., From ..... ft. to ..... ft.  
**GRAVEL PACK INTERVALS:** From **225** ..... ft. to **250.5** ..... 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 **225** ..... 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
0	5.3	Clay, silty, some f-m sand	236	254	Sand, vf-m, tr. c, clayey
5.3	13	Clay, sandy (vf-f, some m, tr. c), calc.			
13	27	Sand, vf-f w/some m, calc.			
27	59	Sand, vf-c			
59	84	Sand, vf-c, clayey			
84	98	Clay, sandy (vf-f w/some m and tr. c)			
98	126	Sand, vf-c, clayey			
126	179	Clay, sandy			
179	236	Sand, vf-c, some clay			

**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) **7/31/2019** ..... 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) **8/31/2019** ..... under the business name of **GeoCore, LLC** ..... Signature *[Signature]* .....



2<sup>nd</sup> and General Welch Site, Liberal, Kansas  
 (for Golder Associates, Inc.)

GPS Coordinates:  
 MW3: 37.04157, -100.95178  
 MW6: 37.03914, -100.94580

MW4: 37.03954, -100.95111  
 MW7: 37.03766, -100.94794

MW5: 37.04094, -100.94773

RECEIVED  
 SEP 23 2019  
 BUREAU OF WATER