

USE TYPEWRITER OR BALL POINT PEN-PRESS FIRMLY, PRINT CLEARLY.

WATER WELL RECORD  
KSA 82a-1201-1215

Kansas Department of Health and Environment-Division of Environment  
(Water well Contractors)  
Topeka, Kansas 66620

1. Location of well:		County <b>Russell</b>	Fraction <b>NW 1/4 NW 1/4 NE 1/4</b>	Section number <b>33</b>	Township number <b>T 11 S R 11</b>	Range number <b>E 11</b>
2. Distance and direction from nearest town or city: <b>1/2 Mi. west</b>			3. Owner of well: <b>City of Lucus</b>			
Street address of well location if in city:			R.R. or street: City, state, zip code: <b>Lucus, Kansas 67648</b>			
4. Locate with "X" in section below:		Sketch map:			6. Bore hole dia. <b>38</b> in. Completion date <b>7/23/79</b> Well depth <b>60</b> ft.	
		Well No. <b>5</b>			7. <input type="checkbox"/> Cable tool <input type="checkbox"/> Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Dug <input type="checkbox"/> Hollow rod <input type="checkbox"/> Jetted <input type="checkbox"/> Bored <input checked="" type="checkbox"/> Reverse rotary	
5. Type and color of material		From	To	8. Use: <input type="checkbox"/> Domestic <input checked="" type="checkbox"/> Public supply <input type="checkbox"/> Industry <input type="checkbox"/> Irrigation <input type="checkbox"/> Air conditioning <input type="checkbox"/> Stock <input type="checkbox"/> Low <input type="checkbox"/> Oil field water <input type="checkbox"/> Other		
Top soil		0	2	9. Casing: Material <b>steel</b> Height: Above or below Threaded <input type="checkbox"/> Welded <input checked="" type="checkbox"/> Surface <b>36</b> in. RMP <input type="checkbox"/> PVC <input type="checkbox"/> Weight <b>43.77</b> lbs./ft. Dia. <b>12</b> in. to <b>40</b> ft. depth Wall Thickness <b>inches</b> or Dia. <b>in.</b> to <b>ft.</b> depth gage No. <b>.330</b>		
Light brown clay		2	5	10. Screen: Manufacturer's name <b>Mustang</b> Type <b>SS. Wire wrap</b> <b>12</b> Slot/gauze <b>.07</b> Length <b>20</b> Set between <b>40</b> ft. and <b>60</b> ft. <b>ft.</b> and <b>ft.</b> Gravel pack? <input checked="" type="checkbox"/> <b>yes</b> Size range of material <b>1/8-1/4</b>		
Light brown clay w/large gravel		5	14	11. Static water level: <b>27.8</b> ft. below land surface Date <b>4/17/79</b> mo./day/yr.		
Hard brown limestone w/large gravel		14	18	12. Pumping level below land surfaces: <b>37.6</b> ft. after <b>1</b> hrs. pumping <b>157</b> g.p.m. <b>39.4</b> ft. after <b>6</b> hrs. pumping <b>157</b> g.p.m. Estimated maximum yield <b>160</b> g.p.m.		
Extra hard rock solid broken limestone		18	21	13. Water sample submitted: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Date <b>4/17/79</b> mo./day/yr.		
Broken hard brown rock w/sand & gravel		21	25	14. Well head completion: <input type="checkbox"/> Pitless adapter <b>30</b> Inches above grade		
Dark brown clay & big gravel		25	29	15. Well grouted? <b>yes</b> With: <input type="checkbox"/> Neat cement <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Concrete Depth: From <b>0</b> ft. to <b>20</b> ft.		
Dark brown clay		29	36	16. Nearest source of possible contamination: ft. <b>300</b> Direction <b>N</b> Type <b>Farm</b> Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Brown, medium sand, big gravel		36	43	17. Pump: Manufacturer's name <b>Layne &amp; Bowler</b> Not installed Model number <b>8URHC</b> HP <b>10</b> Volts <b>240</b> Length of drop pipe <b>50</b> ft. capacity <b>125</b> g.p.m. Type: <input type="checkbox"/> Submersible <input checked="" type="checkbox"/> Turbine <input type="checkbox"/> Jet <input type="checkbox"/> Reciprocating <input type="checkbox"/> Centrifugal <input type="checkbox"/> Other		
Dark brown clay w/big gravel		43	46	(Use a second sheet if needed)		
Fine to medium sand		46	55			
Blue shale		55	60			
18. Elevation:		19. Remarks:		20. Water well contractor's certification: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. <b>Layne Western</b> <b>102</b> Business name License No. Address <b>1011 W. Harry, Wichita</b> Signed <b>Dennis Appleby</b> Date <b>7-24-79</b> Authorized representative		
Topography: <input type="checkbox"/> Hill <input type="checkbox"/> Slope <input type="checkbox"/> Upland <input checked="" type="checkbox"/> Valley						

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Forward the white, blue and pink copies to the Department of Health and Environment

Form WWC-5



**REPORT OF INORGANIC WATER ANALYSIS**  
**STATE OF KANSAS**  
**DEPARTMENT OF HEALTH & ENVIRONMENT**  
**OFFICE OF LABORATORIES AND RESEARCH**  
**FORBES BLDG. 740, TOPEKA, KANSAS 66620**

KGS

Lab. No. 4153

Acct. \_\_\_\_\_

Bottle No. \_\_\_\_\_

Copies To: \_\_\_\_\_

Address inquires to:  
 Division of Environment  
 Mail samples to:  
 Environmental Laboratories

LOCALITY 11 - 11<sup>W</sup> - 33A B B COLLECTED BY \_\_\_\_\_ DATE REPORTED JUN 16 1980  
 DATE COLLECTED 3-11-80 DATE REC'D 4-10-80  
 SOURCE: Russell co. 3903 330 98 325101

Time 1600  
800 288

RESULTS EXPRESSED IN MILLIGRAMS PER LITER

Calcium (Ca <sup>++</sup> )	<u>163.</u>	Carbonate (CO <sub>3</sub> )	<u>0.0</u>	pH	<u>7.3</u>	Iron	_____
Magnesium (Mg <sup>++</sup> )	<u>17.</u>	Bicarbonate (HCO <sub>3</sub> )	<u>381.</u>	Turbidity (NTU)	<u>0.3</u>	Manganese	_____
Sodium (Na <sup>+</sup> )	<u>131.</u>	Chloride (Cl)	<u>175.</u>	Specific Cond.	<u>1450.</u>	Arsenic	_____
Potassium (K <sup>+</sup> )	<u>4.1</u>	Sulfate (SO <sub>4</sub> )	<u>160.</u>	T. Dissolved Solids	<u>905.</u>	Barium	_____
		Nitrate (As N)	<u>9.6.</u>	Total Phosphorus	<u>0.03</u>	Cadmium	_____
		Fluoride (F)	<u>0.43</u>	Ortho Phosphate 'P'	_____	Chromium	_____
<b>Hardness and Alkalinity in Terms of mg/l of CaCO<sub>3</sub>(calculated)</b>				Silica (SiO <sub>2</sub> )	<u>25.</u>	Copper	_____
Total Hardness	<u>477.</u>			Boron	_____	Lead	_____
Carbonate Hardness	<u>312.</u>			Dissolved Oxygen	<u>0.28</u>	Mercury	_____
Non-Carbonate Hardness	<u>165.</u>			5 day 20°C BOD	_____	Selenium	_____
		Total Alkalinity	<u>312.</u>	COD	_____	Silver	_____
		NaHCO <sub>3</sub> Alkalinity	<u>0.</u>	Ammonia (As N)	_____	Zinc	_____
				T. Sus. Solids	_____		_____

Chemist FD Items failing to meet accepted standards are circled. 0.9%