

1 LOCATION OF WATER WELL:		Fraction	Section Number	Township Number	Range Number																																																																																										
County: <u>Morton</u>		<u>SW 1/4 SW 1/4 SE 1/4</u>	<u>36</u>	T <u>34</u> S <u>42</u>	R <u>42</u> E <u>W</u>																																																																																										
Distance and direction from nearest town or city street address of well if located within city? <u>Elkhart - 2 mile North East on Hwy 56 - 1/8 East and north →</u>																																																																																															
2 WATER WELL OWNER: <u>Howard Smith</u>																																																																																															
RR#, St. Address, Box #: <u>Box 1350</u>																																																																																															
City, State, ZIP Code: <u>Elkhart, Ia. 67950</u>																																																																																															
Board of Agriculture, Division of Water Resources Application Number:																																																																																															
3 LOCATE WELL'S LOCATION WITH AN "X" IN SECTION BOX:		4 DEPTH OF COMPLETED WELL: <u>300</u> ft. ELEVATION:																																																																																													
		Depth(s) Groundwater Encountered: 1. _____ ft. 2. _____ ft. 3. _____ ft.																																																																																													
		WELL'S STATIC WATER LEVEL: <u>149</u> ft. below land surface measured on mo/day/yr <u>5-4-98</u>																																																																																													
		Pump test data: Well water was _____ ft. after _____ hours pumping _____ gpm																																																																																													
		Est. Yield _____ gpm: Well water was _____ ft. after _____ hours pumping _____ gpm																																																																																													
		Bore Hole Diameter: <u>12 1/4</u> in. to <u>20</u> ft. and <u>9 1/4</u> in. to <u>300</u> ft.																																																																																													
		WELL WATER TO BE USED AS:																																																																																													
		<input checked="" type="checkbox"/> Domestic    3 Feedlot    6 Oil field water supply    9 Dewatering    12 Other (Specify below) <input type="checkbox"/> Irrigation    4 Industrial    7 Lawn and garden only    10 Monitoring well																																																																																													
		Was a chemical/bacteriological sample submitted to Department? Yes _____ No <input checked="" type="checkbox"/> If yes, mo/day/yr sample was submitted _____																																																																																													
5 TYPE OF BLANK CASING USED:																																																																																															
1 Steel    3 RMP (SR)    5 Wrought iron    8 Concrete tile    CASING JOINTS: Glued <input checked="" type="checkbox"/> Clamped _____ <input checked="" type="checkbox"/> PVC    4 ABS    6 Asbestos-Cement    9 Other (specify below)    Welded <input checked="" type="checkbox"/> Riveted _____ 7 Fiberglass    Threaded _____																																																																																															
Blank casing diameter <u>5.56</u> in. to <u>220</u> ft. Dia. <u>5.56</u> in. to <u>240-260</u> Dia. _____ in. to _____ ft.																																																																																															
Casing height above land surface: <u>30</u> in., weight <u>200</u> lbs./ft. Wall thickness or gauge No. <u>SDR-21</u>																																																																																															
TYPE OF SCREEN OR PERFORATION MATERIAL:																																																																																															
1 Steel    3 Stainless steel    5 Fiberglass    8 RMP (SR)    10 Asbestos-cement 2 Brass    4 Galvanized steel    6 Concrete tile    9 ABS    11 Other (specify) _____ 12 None used (open hole)																																																																																															
SCREEN OR PERFORATION OPENINGS ARE:																																																																																															
1 Continuous slot <input checked="" type="checkbox"/> 3 Mill slot <u>.032</u> 5 Gauzed wrapped    8 Saw cut    11 None (open hole) 2 Louvered shutter    4 Key punched    6 Wire wrapped    9 Drilled holes 7 Torch cut    10 Other (specify) _____																																																																																															
SCREEN-PERFORATED INTERVALS: From <u>220</u> ft. to <u>240</u> ft. From <u>260</u> ft. to <u>300</u> ft.																																																																																															
GRAVEL PACK INTERVALS: From <u>150</u> ft. to <u>300</u> ft. From _____ ft. to _____ ft.																																																																																															
6 GROUT MATERIAL:																																																																																															
1 Neat cement <input checked="" type="checkbox"/> 2 Cement grout <input checked="" type="checkbox"/> Bentonite    4 Other _____ Grout Intervals: From <u>5</u> ft. to <u>25</u> ft. From <u>145</u> ft. to <u>150</u> ft. From _____ ft. to _____ ft.																																																																																															
What is the nearest source of possible contamination: <u>none</u>																																																																																															
1 Septic tank    4 Lateral lines    7 Pit privy    10 Livestock pens    14 Abandoned water well 2 Sewer lines    5 Cess pool    8 Sewage lagoon    11 Fuel storage    15 Oil well/Gas well 3 Watertight sewer lines    6 Seepage pit    9 Feedyard    12 Fertilizer storage    16 Other (specify below) 13 Insecticide storage																																																																																															
Direction from well? _____ How many feet? _____																																																																																															
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>FROM</th> <th>TO</th> <th>LITHOLOGIC LOG</th> <th>FROM</th> <th>TO</th> <th>PLUGGING INTERVALS</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>3</td> <td>Topsoil</td> <td>236</td> <td>245</td> <td>Brown Sandy Clay</td> </tr> <tr> <td>3</td> <td>11</td> <td>Brown Clay</td> <td>245</td> <td>257</td> <td>Coarse Sand w/ Brown Clay streaks</td> </tr> <tr> <td>11</td> <td>58</td> <td>Tan Sandy Clay</td> <td>257</td> <td>270</td> <td>Tan Sandy Clay</td> </tr> <tr> <td>58</td> <td>64</td> <td>Tan Sandy Clay w/ Fine-med sand</td> <td>270</td> <td>288</td> <td>Pink Sandy Clay w/ Fine sand</td> </tr> <tr> <td>64</td> <td>73</td> <td>coarse sand - small gravel</td> <td>288</td> <td>300</td> <td>Red bed</td> </tr> <tr> <td>73</td> <td>94</td> <td>Tan &amp; Pink Sandy Clay</td> <td></td> <td></td> <td></td> </tr> <tr> <td>94</td> <td>117</td> <td>Brown Sandy Clay &amp; sandstone</td> <td></td> <td></td> <td></td> </tr> <tr> <td>117</td> <td>123</td> <td>Brown Clay</td> <td></td> <td></td> <td></td> </tr> <tr> <td>123</td> <td>149</td> <td>Tan Sandy Clay w/ Fine sand streaks</td> <td></td> <td></td> <td></td> </tr> <tr> <td>149</td> <td>167</td> <td>medium sand to small gravel w/ sandstone &amp; sandy clay</td> <td></td> <td></td> <td></td> </tr> <tr> <td>157</td> <td>176</td> <td>Brown &amp; white sandy clay &amp; sandstone</td> <td></td> <td></td> <td></td> </tr> <tr> <td>176</td> <td>195</td> <td>Fine-coarse sand w/ sandy clay streaks</td> <td></td> <td></td> <td></td> </tr> <tr> <td>195</td> <td>205</td> <td>Brown Clay &amp; sandy clay</td> <td></td> <td></td> <td></td> </tr> <tr> <td>205</td> <td>236</td> <td>Fine-med sand w/ sandy clay streaks</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>						FROM	TO	LITHOLOGIC LOG	FROM	TO	PLUGGING INTERVALS	0	3	Topsoil	236	245	Brown Sandy Clay	3	11	Brown Clay	245	257	Coarse Sand w/ Brown Clay streaks	11	58	Tan Sandy Clay	257	270	Tan Sandy Clay	58	64	Tan Sandy Clay w/ Fine-med sand	270	288	Pink Sandy Clay w/ Fine sand	64	73	coarse sand - small gravel	288	300	Red bed	73	94	Tan & Pink Sandy Clay				94	117	Brown Sandy Clay & sandstone				117	123	Brown Clay				123	149	Tan Sandy Clay w/ Fine sand streaks				149	167	medium sand to small gravel w/ sandstone & sandy clay				157	176	Brown & white sandy clay & sandstone				176	195	Fine-coarse sand w/ sandy clay streaks				195	205	Brown Clay & sandy clay				205	236	Fine-med sand w/ sandy clay streaks			
FROM	TO	LITHOLOGIC LOG	FROM	TO	PLUGGING INTERVALS																																																																																										
0	3	Topsoil	236	245	Brown Sandy Clay																																																																																										
3	11	Brown Clay	245	257	Coarse Sand w/ Brown Clay streaks																																																																																										
11	58	Tan Sandy Clay	257	270	Tan Sandy Clay																																																																																										
58	64	Tan Sandy Clay w/ Fine-med sand	270	288	Pink Sandy Clay w/ Fine sand																																																																																										
64	73	coarse sand - small gravel	288	300	Red bed																																																																																										
73	94	Tan & Pink Sandy Clay																																																																																													
94	117	Brown Sandy Clay & sandstone																																																																																													
117	123	Brown Clay																																																																																													
123	149	Tan Sandy Clay w/ Fine sand streaks																																																																																													
149	167	medium sand to small gravel w/ sandstone & sandy clay																																																																																													
157	176	Brown & white sandy clay & sandstone																																																																																													
176	195	Fine-coarse sand w/ sandy clay streaks																																																																																													
195	205	Brown Clay & sandy clay																																																																																													
205	236	Fine-med sand w/ sandy clay streaks																																																																																													
7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was (1) constructed, (2) reconstructed, or (3) plugged under my jurisdiction and was completed on (mo/day/year) <u>5-4-98</u> and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. <u>6000A</u> This Water Well Record was completed on (mo/day/yr) <u>5-20-98</u> under the business name of <u>Cramer Drilling Co.</u> by (signature) <u>Ray Cramer</u>																																																																																															