

Shawver Well Company, Inc.2700 Stanley Avenue
Fredericksburg, IA 50630

8 0 4 8 4

(563) 237-5341
(800) 568-4449

Location of Well Well #3 Volga, IA 52077 T93N R8W Customer Information Tom Halverson <u>VOLGA RIVER RECREATION AREA</u> 10225 Ivy Road Fayette, IA 52142 Job Information Area FB T93N R8W Latitude Longitude PWTS # Permit Number Confirmation Start Date 2/16/2015 End Date 2/26/2015 Warranty Date Warranty	Well Site Information Actual Size Depth 755' Elevation SWL 342.90' RPS Max GPM 50 Pump Inst -- Liner ✓ 160ft Sulfide -- Screen-- Made Water 101'-108'; 693-755' Screen Size Slot Size Riser Pipe Set From 595'-755' Perforated From 696'-755' Tail Pipe Driller Dave Halweg; Cert #: 2814 Remarks:																																																																												
Well Formation Log <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">From-To</th> <th style="text-align: left;">Color</th> <th style="text-align: left;">Formation</th> </tr> </thead> <tbody> <tr><td>0 - 12</td><td>Brown</td><td>Sandy - Clay</td></tr> <tr><td>12 - 22</td><td>Yellow - Brown</td><td>Sandy - Clay</td></tr> <tr><td>22 - 45</td><td>Yellow</td><td>Sandy - Clay</td></tr> <tr><td>45 - 68</td><td>Yellow</td><td>Limestone</td></tr> <tr><td>68 - 101</td><td>Brown - Yellow</td><td>Limestone & Chert</td></tr> <tr><td>101 - 108</td><td>Gray</td><td>Limestone</td></tr> <tr><td>108 - 249</td><td>Blue</td><td>Shale</td></tr> <tr><td>249 - 284</td><td>Brown</td><td>Limestone</td></tr> <tr><td>284 - 301</td><td>Blue</td><td>Shale</td></tr> <tr><td>301 - 384</td><td>Brown</td><td>Shale</td></tr> <tr><td>384 - 608</td><td>Brown</td><td>Limestone</td></tr> <tr><td>608 - 622</td><td>Blue</td><td>Shale Rock</td></tr> <tr><td>622 - 628</td><td>Blue</td><td>Shale - Soft</td></tr> <tr><td>628 - 686</td><td>Blue - Brown</td><td>Shale Rock</td></tr> <tr><td>686 - 693</td><td>Blue</td><td>Shale</td></tr> <tr><td>693 - 746</td><td>White</td><td>Sandstone</td></tr> <tr><td>746 - 755</td><td>White</td><td>Limestone & Blue Shale</td></tr> </tbody> </table>	From-To	Color	Formation	0 - 12	Brown	Sandy - Clay	12 - 22	Yellow - Brown	Sandy - Clay	22 - 45	Yellow	Sandy - Clay	45 - 68	Yellow	Limestone	68 - 101	Brown - Yellow	Limestone & Chert	101 - 108	Gray	Limestone	108 - 249	Blue	Shale	249 - 284	Brown	Limestone	284 - 301	Blue	Shale	301 - 384	Brown	Shale	384 - 608	Brown	Limestone	608 - 622	Blue	Shale Rock	622 - 628	Blue	Shale - Soft	628 - 686	Blue - Brown	Shale Rock	686 - 693	Blue	Shale	693 - 746	White	Sandstone	746 - 755	White	Limestone & Blue Shale	Bore Log <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">From-To</th> <th style="text-align: left;">Bit Size - Number</th> </tr> </thead> <tbody> <tr><td>0 - 49</td><td>12 1/4"</td></tr> <tr><td>49 - 487</td><td>9 7/8"</td></tr> <tr><td>487 - 755</td><td>6 1/4"</td></tr> </tbody> </table> Well Casing Log <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">From-To</th> <th style="text-align: left;">Casing</th> </tr> </thead> <tbody> <tr><td>0 - 487</td><td>7" x .317" Steel</td></tr> <tr><td>2 - 0</td><td>7" x .317" Steel</td></tr> <tr><td>595 - 755</td><td>5" x PVC</td></tr> </tbody> </table> Screen Size Slot Size Riser Pipe Set From 595'-755' Tail Pipe Well Grout Used <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Amount</th> <th style="text-align: left;">Type</th> </tr> </thead> <tbody> <tr><td>194 sacks</td><td>Neat Cement</td></tr> <tr><td>8 sacks</td><td>Casing Seal</td></tr> </tbody> </table>	From-To	Bit Size - Number	0 - 49	12 1/4"	49 - 487	9 7/8"	487 - 755	6 1/4"	From-To	Casing	0 - 487	7" x .317" Steel	2 - 0	7" x .317" Steel	595 - 755	5" x PVC	Amount	Type	194 sacks	Neat Cement	8 sacks	Casing Seal
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