

Shawver Well Company, Inc.2700 Stanley Avenue
Fredericksburg, IA 50630(563) 237-5341
(800) 568-4449

Location of Well 1755 Detroit Street Ellsworth, IA 50075 County Hamilton Township Lincoln Section 30 Quarters Customer Information <u>City of Ellsworth</u> 1528 Dewitt Street Ellsworth, IA 50075 Job Information Area FB Confirmation Latitude 42.315306 Start Date 3/2/2017 Longitude -93.575438 End Date 3/21/2017 PWTS # Warranty Date Permit Number Warranty	Well Site Information Actual Size 12.75" Pump Inst -- Liner--ft Depth 416' Sulfide -- Screen-- Elevation SWL 60' 136' @ RPS 500 GPM Max GPM 600+ Air Lift 416' @ Made Water 151'-164' 1000 Screen Size GPM; 136' @ 500- 600+ GPM Exploratory -- To Slot Size Ft -- Mock Rock Acidize Riser Pipe -- Well Use Set From Perforated From Tail Pipe Driller Dave Halweg Sr; Cert #: 2814 Remarks:																																																																																								
Well Formation Log <table border="1"> <thead> <tr> <th>From-To</th> <th>Color</th> <th>Formation</th> </tr> </thead> <tbody> <tr><td>0 - 2</td><td></td><td>Topsoil</td></tr> <tr><td>2 - 5</td><td>Brown</td><td>Clay</td></tr> <tr><td>5 - 12</td><td></td><td>Bolder & Sand</td></tr> <tr><td>12 - 19</td><td>Tan</td><td>Clay</td></tr> <tr><td>19 - 98</td><td>Blue</td><td>Gravel - clay</td></tr> <tr><td>98 - 104</td><td></td><td>Gravel - Sand</td></tr> <tr><td>104 - 109</td><td>Blue</td><td>Clay</td></tr> <tr><td>109 - 121</td><td></td><td>Sand - Medium</td></tr> <tr><td>121 - 124</td><td>Blue</td><td>Clay</td></tr> <tr><td>124 - 142</td><td></td><td>Sand</td></tr> <tr><td>142 - 148</td><td>Tan</td><td>Limestone</td></tr> <tr><td>148 - 151</td><td>Gray - Tan</td><td>Limestone</td></tr> <tr><td>151 - 164</td><td>Tan - Gray</td><td>Limestone with Blue Green Shale</td></tr> <tr><td>164 - 183</td><td>Gray - Brown</td><td>Limestone</td></tr> <tr><td>183 - 341</td><td>Brown - Tan</td><td>Limestone</td></tr> <tr><td>341 - 367</td><td>Brown - Gray</td><td>Limestone</td></tr> <tr><td>367 - 372</td><td>Dark Brown - Gray</td><td>Shale Rock</td></tr> <tr><td>372 - 402</td><td>Brown - Gray</td><td>Limestone</td></tr> <tr><td>402 - 408</td><td>Brown</td><td>Limestone</td></tr> <tr><td>408 - 412</td><td>Tan</td><td>Limestone</td></tr> <tr><td>412 - 416</td><td>Dark Gray - Brown</td><td>Limestone</td></tr> </tbody> </table>	From-To	Color	Formation	0 - 2		Topsoil	2 - 5	Brown	Clay	5 - 12		Bolder & Sand	12 - 19	Tan	Clay	19 - 98	Blue	Gravel - clay	98 - 104		Gravel - Sand	104 - 109	Blue	Clay	109 - 121		Sand - Medium	121 - 124	Blue	Clay	124 - 142		Sand	142 - 148	Tan	Limestone	148 - 151	Gray - Tan	Limestone	151 - 164	Tan - Gray	Limestone with Blue Green Shale	164 - 183	Gray - Brown	Limestone	183 - 341	Brown - Tan	Limestone	341 - 367	Brown - Gray	Limestone	367 - 372	Dark Brown - Gray	Shale Rock	372 - 402	Brown - Gray	Limestone	402 - 408	Brown	Limestone	408 - 412	Tan	Limestone	412 - 416	Dark Gray - Brown	Limestone	Bore Log <table border="1"> <thead> <tr> <th>From-To</th> <th>Bit Size - Number</th> </tr> </thead> <tbody> <tr><td>0 - 41</td><td>21"</td></tr> <tr><td>41 - 148</td><td>17"</td></tr> <tr><td>148 - 416</td><td>11 7/8"</td></tr> </tbody> </table> Well Casing Log <table border="1"> <thead> <tr> <th>From-To</th> <th>Casing</th> </tr> </thead> <tbody> <tr><td>0 - 41</td><td>18 5/8" x Steel</td></tr> <tr><td>0 - 148</td><td>12 3/4" x .375 Steel</td></tr> <tr><td>1 - 0</td><td>12 3/4" x .375 Steel</td></tr> <tr><td>1 - 0</td><td>18 5/8" x Steel</td></tr> </tbody> </table> Screen Size Slot Size Set From Riser Pipe Tail Pipe Well Grout Used <table border="1"> <thead> <tr> <th>Amount</th> <th>Type</th> </tr> </thead> <tbody> <tr><td>125 sacks</td><td>Neat Cement</td></tr> </tbody> </table>	From-To	Bit Size - Number	0 - 41	21"	41 - 148	17"	148 - 416	11 7/8"	From-To	Casing	0 - 41	18 5/8" x Steel	0 - 148	12 3/4" x .375 Steel	1 - 0	12 3/4" x .375 Steel	1 - 0	18 5/8" x Steel	Amount	Type	125 sacks	Neat Cement
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