

725045

County Washington  
Quad Hugo  
Quad ID 118B

MINNESOTA DEPARTMENT OF HEALTH

WELL AND BORING REPORT

Minnesota Statutes Chapter 1031

Entry Date08/04/2006

Update Date08/27/2013

Received Date01/30/2006

| <div>Well NameOLSON,</div> <div>Elevation1017</div> <div>AddressWell15290 IRISH AV HUGO MN</div> <div>Stratigraphy Information<table><thead><tr><th>Geological Material</th><th>From</th><th>To (ft.)</th><th>Color</th><th>Hardness</th></tr></thead><tbody><tr><td>SANDY CLAY</td><td>0</td><td>12</td><td>BROWN</td><td></td></tr><tr><td>SAND GRAVEL</td><td>12</td><td>24</td><td>BROWN</td><td></td></tr><tr><td>CLAY</td><td>24</td><td>40</td><td>BROWN</td><td></td></tr><tr><td>SAND GRAVEL</td><td>40</td><td>90</td><td>BROWN</td><td></td></tr><tr><td>CLAY</td><td>90</td><td>146</td><td>GRAY</td><td></td></tr><tr><td>SAND GRAVEL</td><td>146</td><td>160</td><td>BROWN</td><td></td></tr></tbody></table></div> | Geological Material | From     | To (ft.) | Color    | Hardness | SANDY CLAY | 0 | 12 | BROWN |  | SAND GRAVEL | 12 | 24 | BROWN |  | CLAY | 24 | 40 | BROWN |  | SAND GRAVEL | 40 | 90 | BROWN |  | CLAY | 90 | 146 | GRAY |  | SAND GRAVEL | 146 | 160 | BROWN |  | <div>Well Depth160 ft.</div> <div>Drill MethodNon-specified Rotary</div> <div>Use domestic</div> <div>Well Hydrofractured?YesNoFromTo</div> <div>Casing TypeSingle casingJointUnknown</div> <div>Drive Shoe?YesNoAbove/Below</div> <div>Casing DiameterWeight4 in. To 156 ft. lbs./ft.</div> <div>Open HoleFromft.Toft.</div> <div>Screen?TypestainlessMakeJOHNSONDiameterSlot/GauzeLengthSet3.8 in. 18 4 ft. 156 ft. 160 ft.</div> <div>Static Water Level73 ft. land surfaceMeasure11/09/2005</div> <div>Pumping Level (below land surface)160 ft. 1 hrs. Pumping at50 g.p.m.</div> <div>Wellhead CompletionPitless adapter manufacturerSNAPPYModel1"<br/>Casing Protection12 in. above grade<br/>At-grade (Environmental Wells and Borings ONLY)</div> <div>Grouting InformationWell Grouted?YesNoNot Specified<br/>MaterialAmountFromTohigh solids bentonite3 Sacksft. 30 ft.</div> <div>Nearest Known Source of Contamination80 feetNorthwesDirectionSewer Type<br/>Well disinfected upon completion?YesNo</div> <div>PumpNot InstalledDate Installed12/13/2005<br/>Manufacturer's nameGRUNDFOES<br/>Model NumberSQEHP1Volt230<br/>Length of drop pipe120 ftCapacity22 g.p. TypSubmersible</div> <div>AbandonedDoes property have any not in use and not sealed well(s)?YesNo</div> <div>VarianceWas a variance granted from the MDH for this well?YesNo</div> <div>MiscellaneousFirst BedrockAquiferQuat. buried<br/>Last Strat sand +larger-brownDepth to Bedrockft<br/>Located byWashington Cty.<br/>Locate MethodGPS SA Off (averaged) (15 meters)<br/>SystemUTM - NAD83, Zone 15, MetersX 505190Y 5002130<br/>Unique Number VerificationTag on wellInput Date06/26/2013</div> <div>Angled Drill Hole</div> <div>Well ContractorBarott B. Well Co.02566BARROTT, B.<br/>Licensee BusinessLic. or Reg. No.Name of Driller</div> |
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| Geological Material                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | From                | To (ft.) | Color    | Hardness |          |            |   |    |       |  |             |    |    |       |  |      |    |    |       |  |             |    |    |       |  |      |    |     |      |  |             |     |     |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| SANDY CLAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0                   | 12       | BROWN    |          |          |            |   |    |       |  |             |    |    |       |  |      |    |    |       |  |             |    |    |       |  |      |    |     |      |  |             |     |     |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| SAND GRAVEL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 12                  | 24       | BROWN    |          |          |            |   |    |       |  |             |    |    |       |  |      |    |    |       |  |             |    |    |       |  |      |    |     |      |  |             |     |     |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| CLAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 24                  | 40       | BROWN    |          |          |            |   |    |       |  |             |    |    |       |  |      |    |    |       |  |             |    |    |       |  |      |    |     |      |  |             |     |     |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| SAND GRAVEL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 40                  | 90       | BROWN    |          |          |            |   |    |       |  |             |    |    |       |  |      |    |    |       |  |             |    |    |       |  |      |    |     |      |  |             |     |     |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| CLAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 90                  | 146      | GRAY     |          |          |            |   |    |       |  |             |    |    |       |  |      |    |    |       |  |             |    |    |       |  |      |    |     |      |  |             |     |     |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| SAND GRAVEL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 146                 | 160      | BROWN    |          |          |            |   |    |       |  |             |    |    |       |  |      |    |    |       |  |             |    |    |       |  |      |    |     |      |  |             |     |     |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |