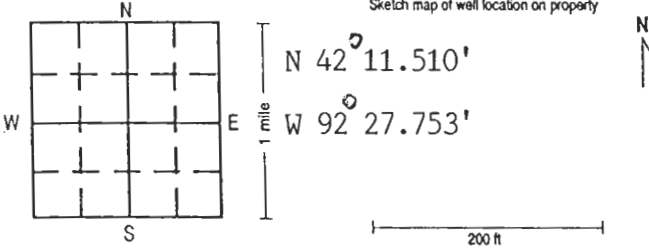


Site identification Property Owner <u>City of Traer</u> Well Number <u>5</u> Address <u>649 2nd street</u> Tenant <u>Water Department Traer, Iowa</u> Well Depth <u>275</u> ft Date Completed <u>9 / 4 / 2007</u>				Drill method <input checked="" type="checkbox"/> rotary <input type="checkbox"/> auger <input type="checkbox"/> cable other _____ Hole size 17.5 inch from <u>0</u> ft to <u>245</u> ft hole size continued _____ inch from _____ ft to _____ ft 11 3/4 inch from <u>245</u> ft to <u>275</u> ft _____ inch from _____ ft to _____ ft Record all depth measurements from ground level (GL). Use (+) for above GL measurements.																																																																				
Location County <u>Tama</u> _____ mi. ^N and _____ mi. ^E of intersection of <u>Elm</u> and <u>Linn St.</u> NE 1/4 of the SE 1/4 of the NW 1/4 of Sec <u>10</u> TWP <u>85W</u> RNG <u>14</u> ^E _W				Casing Drive shoe (yes / no) _____ Pitless adaptor (yes / no) _____ Size (ID/OD) Type / Wt Depth top Depth bottom Amount (length) 12.75 .375/49.56 +2 245 247																																																																				
Show exact location of well in section grid with a dot (•). Sketch map of well location on property 				Perforated or slotted casing? (yes <input checked="" type="checkbox"/> no) _____ Perforated / slotted from _____ ft to _____ ft Perforated / slotted from _____ ft to _____ ft																																																																				
<input checked="" type="checkbox"/> Upland <input type="checkbox"/> hillside <input type="checkbox"/> valley Elevation (if known) <u>929</u>				Casing grouted? (yes <input checked="" type="checkbox"/> no) <u>w/ Grout shoe</u> Type Depth Top Depth Bottom Amount Neat Cement GL 247 6.5 cy																																																																				
Formation log <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>From</th> <th>To</th> <th>Color</th> <th>Hardness</th> <th>Formation description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>64</td> <td>Tan</td> <td>Soft</td> <td>Glacial Till</td> </tr> <tr> <td>64</td> <td>109</td> <td>Brown</td> <td>Soft</td> <td>Till with Sand</td> </tr> <tr> <td>109</td> <td>197</td> <td>Br. & Gray</td> <td></td> <td>Till with Sand</td> </tr> <tr> <td>197</td> <td>205</td> <td>Gray</td> <td></td> <td>Till with Sand</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>Streaks and cobbles</td> </tr> <tr> <td>205</td> <td>214</td> <td>Gray</td> <td></td> <td>Sand and Gravel</td> </tr> <tr> <td>214</td> <td>225</td> <td>Tan</td> <td>Med.</td> <td>lime rock</td> </tr> <tr> <td>225</td> <td>235</td> <td>Gray</td> <td></td> <td>Shale and lime rock</td> </tr> <tr> <td>235</td> <td>245</td> <td>Brown</td> <td></td> <td>Lime rock</td> </tr> <tr> <td>245</td> <td>253</td> <td>Gray</td> <td></td> <td>Lime rock</td> </tr> <tr> <td>253</td> <td>256</td> <td>Gr & Br.</td> <td>Med</td> <td>Lime rock</td> </tr> <tr> <td>256</td> <td>275</td> <td>Tan & Br.</td> <td>Hard</td> <td>Lime rock</td> </tr> </tbody> </table>				From	To	Color	Hardness	Formation description	0	64	Tan	Soft	Glacial Till	64	109	Brown	Soft	Till with Sand	109	197	Br. & Gray		Till with Sand	197	205	Gray		Till with Sand					Streaks and cobbles	205	214	Gray		Sand and Gravel	214	225	Tan	Med.	lime rock	225	235	Gray		Shale and lime rock	235	245	Brown		Lime rock	245	253	Gray		Lime rock	253	256	Gr & Br.	Med	Lime rock	256	275	Tan & Br.	Hard	Lime rock	Well screen? (yes / no) _____ Diameter Slot size Depth Top Depth Bottom Length Material			
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use additional sheets as needed				Bottom capped (yes <input checked="" type="checkbox"/> no) with _____ Seals / Packers (yes <input checked="" type="checkbox"/> no) kind _____ depth _____ ft Gravel packed (yes <input checked="" type="checkbox"/> no) from _____ ft to _____ ft type _____ amount _____																																																																				
Remarks (including depth of lost drilling fluids, materials, or tools)				Well developed? (yes / no) _____ Explain <u>Air lift development</u>																																																																				
Well use <input type="checkbox"/> Domestic <input checked="" type="checkbox"/> Municipal <input type="checkbox"/> Industrial <input type="checkbox"/> Livestock <input type="checkbox"/> Public Supply <input type="checkbox"/> Monitoring <input type="checkbox"/> Test Well <input type="checkbox"/> Irrigation <input type="checkbox"/> Other _____ (explain)				Pump installed? (yes <input checked="" type="checkbox"/> no) _____ Date _____ / _____ / _____ Installer's name _____ Type of pump _____ Depth to intake _____ ft Pump diameter _____ Rated capacity _____ GPM																																																																				
_____				Water information Aquifer: <input type="checkbox"/> sand/gravel <input checked="" type="checkbox"/> limestone <input type="checkbox"/> sandstone Main water-supply zone from <u>249</u> ft to <u>255</u> ft Final water level (static water level) <u>47</u> ft <input checked="" type="checkbox"/> below <input type="checkbox"/> above) GL. Pumping water level <u>206</u> ft below GL; <input type="checkbox"/> tape <input type="checkbox"/> airline <input checked="" type="checkbox"/> E-line Flow Meter At yield of <u>340</u> GPM; <input type="checkbox"/> orifice <input type="checkbox"/> volumetric <input type="checkbox"/> estimate Date <u>9-6-07</u>																																																																				
_____				Water quality test? (yes <input checked="" type="checkbox"/> no) _____ Date tested <u>9 / 6 / 2007</u> Tested by <u>Hygenic Laboratory</u> Test results <u>On File</u>																																																																				
_____				Contractor <u>Northway Well and Pump Company</u> Address <u>4895 8th Avenue - Marion, Iowa 52302</u> Driller <u>Frank Caes</u> Certification no. <u>1784</u>																																																																				