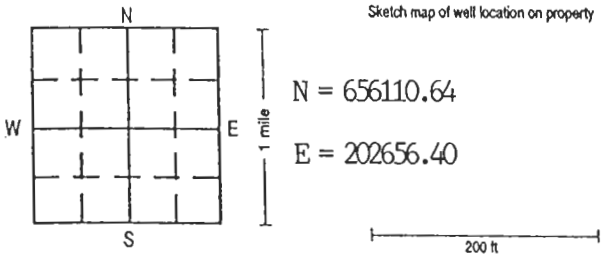


WELL RECORD

64096

Permit No. 2007-0462W

Site identification Property Owner <u>City of Marengo</u> Well Number <u>12</u> Address <u>PO Box 245</u> Tenant <u>Marengo, Iowa Water Department</u> Well Depth <u>35</u> ft Date Completed <u>8 / 6 / 2007</u>				Drill method ☒ rotary ☐ auger ☐ cable other <u>Reverse</u>																												
Location County <u>Iowa</u> ____ mi. ^N and ____ mi. ^E of intersection of _____ and _____ <u>SW</u> 1/4 of the <u>NE</u> 1/4 of the <u>SW</u> 1/4 of Sec <u>25</u> TWP <u>81</u> N Rng <u>11</u> E <u>W</u>				Hole size <u>36</u> inch from <u>0</u> ft to <u>35</u> ft ____ inch from ____ ft to ____ ft hole size continued ____ inch from ____ ft to ____ ft ____ inch from ____ ft to ____ ft																												
Record all depth measurements from ground level (GL). Use (+) for above GL measurements.				Casing Drive shoe (yes / no) Pitless adaptor (yes / no)																												
<table border="1"><thead><tr><th>Size (ID/OD)</th><th>Type / Wt</th><th>Depth top</th><th>Depth bottom</th><th>Amount (length)</th></tr></thead><tbody><tr><td>12 3/4"</td><td>.375/49.56</td><td>+4</td><td>27</td><td>31</td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr></tbody></table>				Size (ID/OD)	Type / Wt	Depth top	Depth bottom	Amount (length)	12 3/4"	.375/49.56	+4	27	31																Perforated or slotted casing? (yes ☒ no ☐ Perforated / slotted from ____ ft to ____ ft Perforated / slotted from ____ ft to ____ ft			
Size (ID/OD)	Type / Wt	Depth top	Depth bottom	Amount (length)																												
12 3/4"	.375/49.56	+4	27	31																												
Formation log From To Color Hardness Formation description 0 11 Br. Till 11 28 Br. Fine Sand 28 35 Gr. Med. to coarse sand and gravel				Casing grouted? (yes ☒ no ☐ <table border="1"><thead><tr><th>Type</th><th>Depth Top</th><th>Depth Bottom</th><th>Amount</th></tr></thead><tbody><tr><td>Bentonite</td><td>23</td><td>28</td><td>23 Sacks</td></tr><tr><td>ASTM - C150</td><td>0</td><td>23</td><td>90 Sacks</td></tr></tbody></table>				Type	Depth Top	Depth Bottom	Amount	Bentonite	23	28	23 Sacks	ASTM - C150	0	23	90 Sacks													
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Bentonite	23	28	23 Sacks																													
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☐ upland ☐ hillside ☒ valley Elevation (if known) <u>744</u>				Well screen? (yes / no) <table border="1"><thead><tr><th>Diameter</th><th>Slot size</th><th>Depth Top</th><th>Depth Bottom</th><th>Length</th><th>Material</th></tr></thead><tbody><tr><td>12 3/4</td><td>0.060</td><td>31</td><td>40</td><td>9</td><td>SS</td></tr></tbody></table>				Diameter	Slot size	Depth Top	Depth Bottom	Length	Material	12 3/4	0.060	31	40	9	SS													
Diameter	Slot size	Depth Top	Depth Bottom	Length	Material																											
12 3/4	0.060	31	40	9	SS																											
				Bottom capped (yes ☒ no ☐ with <u>Stainless steel plate</u> Seals / Packers (yes ☒ no ☐ kind ____ depth ____ ft Gravel packed (yes ☒ no ☐ from <u>30</u> ft to <u>40</u> ft type <u>#2 Northern</u> amount <u>8000#</u>																												
Remarks (including depth of lost drilling fluids, materials, or tools)				Well developed? (yes ☒ no ☐ Explain <u>Surging</u>																												
Well use ☐ Domestic ☒ Municipal ☐ Industrial ☐ Livestock ☐ Public Supply ☐ Monitoring ☐ Test Well ☐ Irrigation ☐ Other ____ (explain) ____				Pump installed? (yes ☒ no ☐ Date <u>Nov.</u> / ____ / 2007 Installer's name <u>Northway Well and Pump Company</u> Type of pump <u>Turbine</u> Depth to intake <u>25</u> ft Pump diameter <u>10"</u> Rated capacity <u>350</u> GPM																												
use additional sheets as needed				Water information Aquifer: ☒ sand/gravel ☐ limestone ☐ sandstone Main water-supply zone from <u>28</u> ft to <u>35</u> ft Final water level (static water level) <u>11.7</u> ft (<u>below</u> above) GL. Pumping water level <u>24.7</u> ft below GL; ☐ tape ☐ airline ☒ E-line At yield of <u>550</u> GPM; ☐ orifice ☐ volumetric ☐ estimate Date <u>Sept.</u> 2007 Flow Meter																												
Water quality test? (yes ☒ no ☐ Date tested ____ / ____ / ____ Tested by ____ Test results ____				Contractor <u>Northway Well and Pump Company</u> Address <u>4895 24th Avenue - Marion, Iowa 52302</u> Driller <u>Dan Glessner</u> Certification no. <u>2651</u>																												