

514952

County Stearns
Quad
Quad ID

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING REPORT
Minnesota Statutes Chapter 1031

Entry Date 03/18/1993
Update Date 02/14/2014
Received Date

Well Name HARTOG,	Township 123	Range 35	Dir Section W 13	Subsection BDA	Well Depth 175 ft.	Depth Completed 175 ft.	Date Well Completed 07/24/1992																																			
Elevation	Elev. Method				Drill Method Non-specified Rotary	Drill Fluid Bentonite																																				
Address C/W 2371 13 CR BELGRADE MN 56312					Use domestic	Status Active																																				
Stratigraphy Information <table><tr><td>Geological Material</td><td>From</td><td>To (ft.)</td><td>Color</td><td>Hardness</td></tr><tr><td>TOPSOIL</td><td>0</td><td>1</td><td></td><td></td></tr><tr><td>SAND/GRAVEL</td><td>1</td><td>31</td><td></td><td></td></tr><tr><td>MED CLAY</td><td>31</td><td>87</td><td>GRAY</td><td>SOFT</td></tr><tr><td>MED CLAY</td><td>87</td><td>95</td><td>GRAY</td><td>HARD</td></tr><tr><td>MED CLAY</td><td>95</td><td>165</td><td>GRAY</td><td>HARD</td></tr><tr><td>SAND/GRAVEL</td><td>165</td><td>175</td><td></td><td></td></tr></table>					Geological Material	From	To (ft.)	Color	Hardness	TOPSOIL	0	1			SAND/GRAVEL	1	31			MED CLAY	31	87	GRAY	SOFT	MED CLAY	87	95	GRAY	HARD	MED CLAY	95	165	GRAY	HARD	SAND/GRAVEL	165	175			Well Hydrofractured? Yes ☐ No ☐ From To		
					Geological Material	From	To (ft.)	Color	Hardness																																	
					TOPSOIL	0	1																																			
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					SAND/GRAVEL	165	175																																			
					Casing Type Single casing			Joint Glued																																		
					Drive Shoe? Yes ☐ No ☐ Above/Below																																					
Casing Diameter 4 in. To 170 ft.		Weight lbs./ft.	Hole Diameter 4 in. To 175 ft.																																							
Open Hole From ft. To ft.																																										
Screen? ☒	Type plastic	Make CERTA-LOK																																								
Diameter 4 in.	Slot/Gauze 18	Length 5 ft.	Set 175 ft.	ft. 170 ft.																																						
Static Water Level 22 ft. land surface Measure 07/24/1992																																										
Pumping Level (below land surface) 29 ft. 12 hrs. Pumping at 12 g.p.m.																																										
Wellhead Completion Pitless adapter manufacturer Model ☐ Casing Protection ☐ 12 in. above grade ☐ At-grade (Environmental Wells and Borings ONLY)																																										
Grouting Information Well Grouted? ☒ Yes ☐ No ☐ Not Specified Material Amount From To neat cement 0 ft. 30 ft. bentonite 30 ft. 160 ft. other 160 ft. 175 ft.																																										
Nearest Known Source of Contamination feet Direction Type Well disinfected upon completion? ☒ Yes ☐ No																																										
Pump ☐ Not Installed Date Installed Manufacturer's name Model Number HP Volt Length of drop pipe ft Capacity g.p. Typ																																										
Abandoned Does property have any not in use and not sealed well(s)? ☐ Yes ☒ No																																										
Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No																																										
Miscellaneous First Bedrock Aquifer Last Strat Depth to Bedrock ft Located by Locate Method System UTM - NAD83, Zone 15, Meters X Y Unique Number Verification Input Date																																										
Angled Drill Hole																																										
Well Contractor Blue Water Well Co. 73413 ALFORD, M Licensee Business Lic. or Reg. No. Name of Driller																																										

Remarks
GROUTING INFORMATION: GRAVEL PACK 160-175