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County Aitkin
Quad Minnewawa
Quad ID 228A

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

Entry Date 02/25/2008
Update Date 12/20/2017
Received Date 06/28/2007

Well Name WIRGAU,	Township 49	Range 23	Dir Section W 28	Subsection CDCCAA	Well Depth 170 ft.	Depth Completed 170 ft.	Date Well Completed 05/22/2007
Elevation 1247	Elev. Method LiDAR 1m DEM (MNDNR)	Drill Method Non-specified Rotary				Drill Fluid Bentonite	
Address Contact 2524 65 HY MORA MN 55051					Use domestic	Status Active	
Stratigraphy Information Geological Material From To (ft.) Color Hardness SAND 0 22 BROWN MUD 22 40 GRAY SOFT CLAY 40 90 GRAY MEDIUM HARDPAN 90 162 BROWN M.HARD SAND 162 170 BROWN MEDIUM					Well Hydrofractured? Yes ☐ No ☒ From To		
					Casing Type Single casing ☐ Joint ☐		
					Drive Shoe? Yes ☐ No ☐ Above/Below		
					Casing Diameter 4 in. To 162 ft. lbs./ft. Hole Diameter 6.5 in. To 170 ft.		
					Open Hole From ft. To ft.		
					Screen? ☒ Type stainless Make JOHNSON Diameter Slot/Gauze Length Set 2 in. 12 8 ft. 162 ft. 170 ft.		
					Static Water Level 30 ft. land surface Measure 05/22/2007		
					Pumping Level (below land surface) ft. 2 hrs. Pumping at 30 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 bentonite 4 Sacks ft. 30 ft.		
Nearest Known Source of Contamination 50 feet Direction Type Well disinfected upon completion? ☒ Yes ☐ No							
Pump ☐ Not Installed Date Installed Manufacturer's name STA RITE Model Number HP 0.5 Volt 230 Length of drop pipe 70 ft Capacity 10 g.p. Typ Submersible							
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 Quat. buried Last Strat sand-brown Depth to Bedrock ft Located by Minnesota Geological Survey Locate Method GPS SA Off (averaged) (15 meters) System UTM - NAD83, Zone 15, Meters X 479454 Y 5171479 Unique Number Verification Tax Records Input Date 06/29/2016							
Angled Drill Hole							
Well Contractor Hasskamp Bros. Well Drilling 1585 LLOYD Licensee Business Lic. or Reg. No. Name of Driller							