

837387

County Steele
Quad Hope
Quad ID 32A

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

Entry Date 10/23/2019
Update Date 06/09/2020
Received Date 04/13/2020

Well Name CASSEN, KEITH	Township 106	Range 21	Dir W	Section 9	Subsection DCDCAC
Elevation 1168	Elev. Method LiDAR 1m DEM (MNDNR)				
Address Well 6790 73RD AV SW OWATONNA MN 55060					
Stratigraphy Information					
Geological Material		From	To (ft.)	Color	Hardness
GRAVEL/ BOULDERS		0	18	TAN	HARD
CLAY		18	45	BLUE	MEDIUM
SANDY CLAY		45	60	BLUE	SOFT
CLAY		60	72	BROWN	M.SOFT
LIMESTONE		72	93	BROWN	M.HARD
LIMESTONE		93	130	WHITE	HARD
LIMESTONE		130	186	GRAY	HARD
Well Depth 186 ft. Depth Completed 186 ft. Date Well Completed 02/12/2020					
Drill Method Non-specified Rotary		Drill Fluid Bentonite			
Use domestic			Status		
Well Hydrofractured? Yes ☐ No ☒			From To		
Casing Type Single casing			Joint Threaded		
Drive Shoe? Yes ☒ No ☐			Above/Below		
Casing Diameter		Weight		Hole Diameter	
5 in. To 75 ft. 15 lbs./ft.				9 in. To 75 ft. 5 in. To 186 ft.	
Open Hole From 75 ft. To 186 ft.					
Screen? ☐		Type		Make	
Static Water Level 10 ft. land surface Measure 02/11/2020					
Pumping Level (below land surface) 11 ft. 2 hrs. Pumping at 25 g.p.m.					
Wellhead Completion Pitless adapter manufacturer BAKER Model 6PS56BS4CO ☐ 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		5 Sacks		0 ft. 75 ft.	
Nearest Known Source of Contamination 25 feet South Direction Septic tank/drain field Type Well disinfected upon completion? ☐ Yes ☐ No					
Pump ☐ Not Installed Date Installed 02/11/2020 Manufacturer's name FLOWISE Model Number P18S10 HP 1 Volt 230 Length of drop pipe 40 ft Capacity 18 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 Last Strat Depth to Bedrock ft Located by Minnesota Department of Health Locate Method GPS SA Off (averaged) (15 meters) System UTM - NAD83, Zone 15, Meters X 471698 Y 4871258 Unique Number Verification Info/GPS from data Input Date 10/23/2019					
Angled Drill Hole					
Well Contractor Licensee Business Lic. or Reg. No. BORN, DENNIS Name of Driller					