

Minnesota Unique Well No.

500677

County Isanti
Quad Bradford
Quad ID 153D

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

Entry Date 09/25/1990
Update 08/08/1989
Received Date 03/31/2014

Well Name	Township	Range	Dir	Section	Subsection	Use	Status	Well Depth	Depth Completed	Date Well Completed	Lic/Reg. No.				
HERTWIG, FRED	36	24	W	28	ADAAAB	domestic	A	196 ft.	196 ft.	08/04/1989	71015				
Elevation	931 ft.	Elev. Method	7.5 minute topographic map (+/- 5 feet)			Aquifer	Quat. buried artes.	Depth to Bedrock	ft	Open Hole	-	ft	Static Water Level	20.5	ft
Field Located By	Minnesota Geological Survey				Locate Method	Digitized - scale 1:24,000 or larger (Digitizing			Universal Transverse Mercator (UTM) - NAD83 - Zone 15 -						
Unique No. Verified	Address verification				Input Source	Minnesota Geological Survey			UTM Easting (X)		474391				
Geological Interpretation	Margeurite Pettus				Input Date	04/17/1995			UTM Northing (Y)		504784				
Agency (Interpretation)									Interpretaion Method		Geologic study 1:24k to 1:100k				

Geological Material	Color	Hardness	Depth (ft.)			Elevation (ft.)			Stratigraphy	Primary Lithology	Secondary	Minor Lithology
			From	To	Thickness	From	To					
CLAY	BROWN		0	5	5	931	926	clay-brown	clay			
SAND	BROWN		5	20	15	926	911	sand-brown	sand			
GRAVEL	VARIED		20	33	13	911	898	gravel (+larger)	gravel			
CLAY	GRAY		33	40	7	898	891	clay-gray	clay			
CLAY	RED		40	58	18	891	873	clay-red	clay			
COARSE ROCK/GRAVEL	DARK		58	65	7	873	866	gravel (+larger)	cobble	gravel		
SAND	BROWN		65	70	5	866	861	sand-brown	sand			
CLAY & STONE	BROWN		70	80	10	861	851	pebbly sand/silt/clay-	clay	cobble		
CLAY GREENISH	GREEN		80	95	15	851	836	clay-green	clay			
SAND	BROWN		95	105	10	836	826	sand-brown	sand			
CLAY & GRAVEL WHITE	BLU/WHT		105	114	9	826	817	pebbly sand/silt/clay	clay	gravel		
CLAY	GREEN		114	152	38	817	779	clay-green	clay			
CLAY & GRAVEL	BRN/GRY		152	158	6	779	773	pebbly sand/silt/clay	clay	gravel		
GRAVEL	WHITE		158	164	6	773	767	gravel (+larger)-	gravel			
CLAY & SAND	BLU/GRN		164	180	16	767	751	clay+sand	clay	sand		
GRAVEL, WHITE/MIX	VARIED		180	196	16	751	735	gravel (+larger)	gravel			