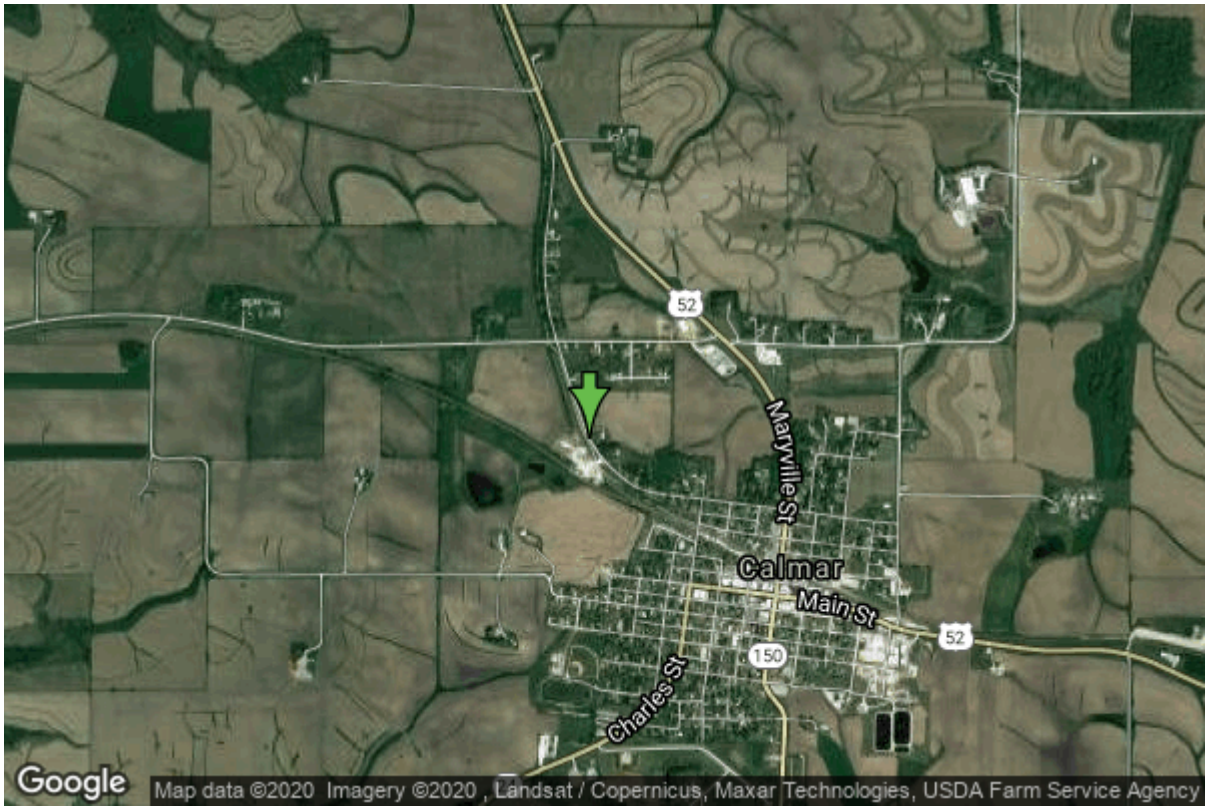
Well W#56721 Information



Date Received	12/05/2002	**State**	Iowa
Owner Name	Calmar, City Of	**County**	Winneshiek
Alt Name	#5	**Quadrangle**	Calmar, Iowa
WNumber	56721	**Township**	T97N
PWTS ID	0	**Range**	R9W
PWS ID	9615064	**Section**	26
Storet ID	0	**Quarter**	SE NW SW
SDWIS ID	2584687	**Latitude**	43.1876190000
USGS ID	0	**Longitude**	-91.8719600000
Project	Source Water Protection	**Accuracy**	
Operator	Unknown	**UTM X**	591665
		UTM Y	4782268

Site Type	Drilled hole	**Drilling Company**	Shawver Well Co.
Well Status	Active	**Drilling Date**	11/21/2002
Field Located	No	**Drilling Method**	Rotary
Elevation	1269 ft	**Bedrock Depth**	60 ft
Elevation Accuracy	Digital Elevation Model Accurate to 10 ft	**Well Depth**	1180 ft
		Total Depth	1180 ft
Landscape Position	Unknown	**Well Types**	Municipal, Public Supply
		Aquifers	Cambrian-Ordovician

Hole Construction Information

Date	12/09/2002		
Diameter	23.00 in	**Depth**	85.00 ft

Comments

Date	12/09/2002		
Diameter	17.50 in	**Depth**	728.00 ft
Comments			

Date	12/09/2002		
Diameter	11.75 in	**Depth**	1180.00 ft
Comments			

Casing Construction Information

Date	12/09/2002	**Casing Type**	Steel
Start Depth	-0.50 ft	**End Depth**	85.00 ft
Diameter	18.63 in	**Amount**	85.50 ft
Comments			

Date	12/09/2002	**Casing Type**	PVC
Start Depth	-1.00 ft	**End Depth**	728.00 ft
Diameter	12.75 in	**Amount**	729.00 ft
Comments			

Log Information

Date	
Log Types	Drillers log
Prepared By	Unknown
Comments	

Date	
Log Types	Strip log
Prepared By	Unknown
Comments	

Stratigraphy Information

System	Quaternary		
Series			
Group			
Formation			
Member			
Submember			
Start Depth	0.00 ft	**End Depth**	95.00 ft
Contact Accuracy			
Penetration			
Primary Lithology	Sand	**Percent**	0

Secondary Lithology	Till	**Percent**	0
Tertiary Lithology	Loess	**Percent**	0
Comments			

System	Devonian		
Series			
Group	Wapsipinicon		
Formation	Spillville		
Member			
Submember			
Start Depth	95.00 ft	**End Depth**	130.00 ft
Contact Accuracy			
Penetration			
Primary Lithology	Dolomite	**Percent**	0
Secondary Lithology	Shale	**Percent**	0
Tertiary Lithology	Unknown	**Percent**	0
Comments			

System	Ordovician		
Series			
Group			
Formation	Maquoketa		
Member	Ft. Atkinson Limestone		
Submember			
Start Depth	130.00 ft	**End Depth**	160.00 ft
Contact Accuracy			
Penetration			
Primary Lithology	Dolomite	**Percent**	0
Secondary Lithology	Chert/Chalcedony	**Percent**	0
Tertiary Lithology		**Percent**	
Comments			

System	Ordovician		
Series			
Group			
Formation	Maquoketa		
Member	Clermont Shale		
Submember			
Start Depth	160.00 ft	**End Depth**	190.00 ft
Contact Accuracy			
Penetration			
Primary Lithology	Dolomite	**Percent**	0
Secondary Lithology	Shale	**Percent**	0
Tertiary Lithology		**Percent**	
Comments			

System	Ordovician		
Series			
Group			

Formation	Maquoketa		
Member	Elgin Limestone		
Submember			
Start Depth	190.00 ft	**End Depth**	305.00 ft
Contact Accuracy			
Penetration			
Primary Lithology	Limestone	**Percent**	0
Secondary Lithology	Dolomite	**Percent**	0
Tertiary Lithology	Shale	**Percent**	0
Comments			

System	Ordovician		
Series			
Group	Galena		
Formation	Dubuque		
Member			
Submember			
Start Depth	305.00 ft	**End Depth**	405.00 ft
Contact Accuracy			
Penetration			
Primary Lithology	Limestone	**Percent**	0
Secondary Lithology		**Percent**	
Tertiary Lithology		**Percent**	
Comments	Dubuque + Wise Lake fms.		

System	Ordovician		
Series			
Group	Galena		
Formation	Dunleith		
Member			
Submember			
Start Depth	405.00 ft	**End Depth**	535.00 ft
Contact Accuracy			
Penetration			
Primary Lithology	Limestone	**Percent**	0
Secondary Lithology	Chert/Chalcedony	**Percent**	0
Tertiary Lithology		**Percent**	
Comments			

System	Ordovician		
Series			
Group	Galena		
Formation	Decorah		
Member			
Submember			
Start Depth	535.00 ft	**End Depth**	588.00 ft
Contact Accuracy			
Penetration			
Primary Lithology	Limestone	**Percent**	0

Secondary Lithology	Shale	**Percent**	0
Tertiary Lithology		**Percent**	
Comments			

System	Ordovician		
Series			
Group	Galena		
Formation	Platteville		
Member			
Submember			
Start Depth	588.00 ft	**End Depth**	630.00 ft
Contact Accuracy			
Penetration			
Primary Lithology	Limestone	**Percent**	0
Secondary Lithology	Shale	**Percent**	0
Tertiary Lithology		**Percent**	
Comments			

System	Ordovician		
Series			
Group	Ancell		
Formation	St. Peter Sandstone		
Member			
Submember			
Start Depth	630.00 ft	**End Depth**	685.00 ft
Contact Accuracy			
Penetration			
Primary Lithology	Sandstone	**Percent**	0
Secondary Lithology	Shale	**Percent**	0
Tertiary Lithology	Limestone	**Percent**	0
Comments	Quetionable base. No sample at 675'-680'.		

System	Ordovician		
Series			
Group	Prairie Du Chien		
Formation	Shakopee		
Member			
Submember			
Start Depth	685.00 ft	**End Depth**	817.00 ft
Contact Accuracy			
Penetration			
Primary Lithology	Dolomite	**Percent**	0
Secondary Lithology	Sandstone	**Percent**	0
Tertiary Lithology	Chert/Chalcedony	**Percent**	0
Comments	No sample at 710'-715' and 725'-730'.		

System	Ordovician		
Series			
Group	Prairie Du Chien		

Formation	Oneota		
Member			
Submember			
Start Depth	817.00 ft	**End Depth**	1025.00 ft
Contact Accuracy			
Penetration			
Primary Lithology	Dolomite	**Percent**	0
Secondary Lithology	Limestone	**Percent**	0
Tertiary Lithology	Chert/Chalcedony	**Percent**	0
Comments			

System	Cambrian		
Series			
Group			
Formation	Jordan		
Member			
Submember			
Start Depth	1025.00 ft	**End Depth**	1115.00 ft
Contact Accuracy			
Penetration			
Primary Lithology	Sandstone	**Percent**	0
Secondary Lithology	Dolomite	**Percent**	0
Tertiary Lithology	Unknown	**Percent**	0
Comments			

System	Unknown		
Series			
Group			
Formation			
Member			
Submember			
Start Depth	1115.00 ft	**End Depth**	1180.00 ft
Contact Accuracy			
Penetration			
Primary Lithology		**Percent**	
Secondary Lithology		**Percent**	
Tertiary Lithology		**Percent**	
Comments			

Water Production Information

Date		**Start Time**	
Aquifer	Unknown		
Static Water Level	400.00 ft	**Yield**	533 gallons per minute
Pumping Water Level	540 ft	**Yield Method**	Unknown
Measurement	Airline	**Pump Test**	Yes
Pump Method	Unknown	**Duration**	0 mins
Comments			

Chip Storage Information

Date	12/17/2002		
Storage	OD4-749>753	**Bin**	
Number of Boxes	5	**Number of Samples**	220
Sample Intervals	5	**Sample Gaps**	675-680; 710-715; 725-730; 1115-1180
Sample Top	0 ft	**Sample Bottom**	1115 ft
Washed Top	80 ft	**Washed Bottom**	1115 ft
Duplicate Storage			
Comments			

https://www.iihr.uiowa.edu/igs/geosam/well/56721/general-information