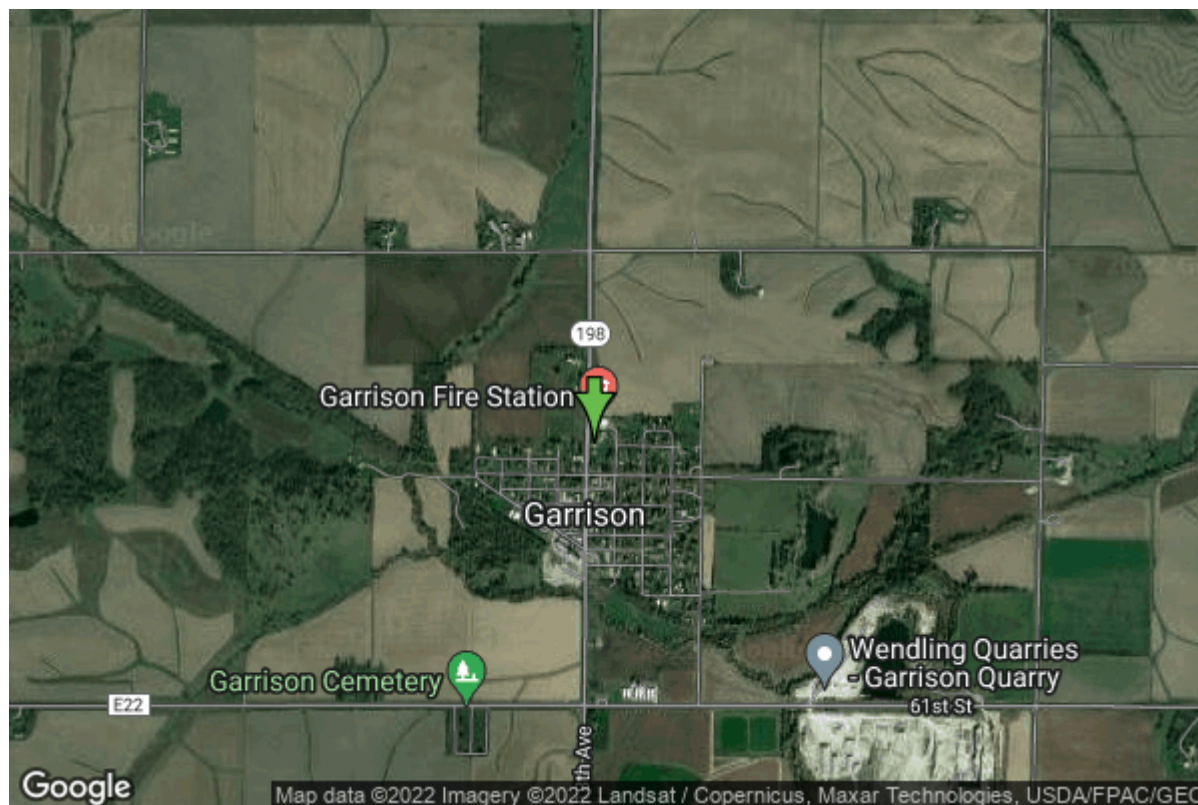


Well W#3239 Information



Date Received		State	Iowa
Owner Name	Garrison, City Of	County	Benton
Alt Name	#2	Quadrangle	Garrison, Iowa
WNumber	3239	Township	T85N
PWTS ID	0	Range	R11W
PWS ID	625078	Section	28
Storet ID	0	Quarter	NW SW SW
SDWIS ID	2409643	Latitude	42.1460700000
USGS ID	0	Longitude	-92.1427390000
Project	Source Water Protection	Accuracy	
Operator	Unknown	UTM X	570834
		UTM Y	4666350

Site Type	Drilled hole	Drilling Company	Hoeg & Ames (H.M. White)
Well Status	Standby	Drilling Date	07/06/1948
Field Located	No	Drilling Method	Cable
Elevation	910 ft	Bedrock Depth	25 ft
Elevation Accuracy	Digital Elevation Model Accurate to 5 ft	Well Depth	1622 ft
Landscape Position	Valley	Total Depth	1622 ft
		Well Types	Municipal, Public Supply
		Aquifers	Cambrian-Ordovician, Devonian, Ordovician, Silurian

Casing Construction Information

Date	07/06/1948	Casing Type	Steel
Start Depth	0.00 ft	End Depth	70.00 ft
Diameter	10.00 in	Amount	70.00 ft
Comments			
<hr/>			
Date	07/06/1948	Casing Type	Steel
Start Depth	474.70 ft	End Depth	775.00 ft
Diameter	8.00 in	Amount	300.30 ft
Comments			
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Date	07/06/1948	Casing Type	Steel
Start Depth	893.00 ft	End Depth	1095.00 ft
Diameter	7.00 in	Amount	202.00 ft
Comments			

Log Information

Date 07/30/1958
Log Types Strip log
Prepared By Hale, William E.
Comments

Date 07/01/1949
Log Types Strip log
Prepared By Huntington, George C.
Comments Log only goes to 528'

Date 07/01/1948
Log Types Pump Test
Prepared By
Comments

Date 06/15/1948
Log Types Strip log
Prepared By Hale, William E.
Comments Log only to 528'

Date 06/15/1948
Log Types Strip log
Prepared By Hale, William E.
Comments

Date
Log Types Drillers log

Prepared By
Comments

Stratigraphy Information

System	Quaternary		
Series	Pleistocene Series		
Group			
Formation			
Member			
Submember			
Start Depth	0.00 ft	End Depth	25.00 ft
Contact Accuracy			
Penetration			
Primary Lithology	Till	Percent	0
Secondary Lithology	Silt	Percent	0
Tertiary Lithology		Percent	
Comments			

System	Devonian		
Series			
Group	Yellow Spring (New Albany)		
Formation	Lime Creek		
Member			
Submember			
Start Depth	25.00 ft	End Depth	35.00 ft
Contact Accuracy			
Penetration			
Primary Lithology	Shale	Percent	100
Secondary Lithology		Percent	
Tertiary Lithology		Percent	
Comments			

System	Devonian		
Series			
Group	Cedar Valley		
Formation	Coralville		
Member			
Submember			
Start Depth	35.00 ft	End Depth	90.00 ft
Contact Accuracy			
Penetration			
Primary Lithology	Limestone	Percent	0
Secondary Lithology	Shale	Percent	0
Tertiary Lithology		Percent	
Comments			

System	Devonian		
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Series			
Group	Cedar Valley		
Formation	Little Cedar		
Member	Rapid		
Submember			
Start Depth	90.00 ft	End Depth	170.00 ft
Contact Accuracy			
Penetration			
Primary Lithology	Dolomite	Percent	0
Secondary Lithology	Limestone	Percent	0
Tertiary Lithology		Percent	
Comments			

System	Devonian		
Series			
Group	Cedar Valley		
Formation	Little Cedar		
Member	Solon		
Submember			
Start Depth	170.00 ft	End Depth	215.00 ft
Contact Accuracy			
Penetration			
Primary Lithology	Limestone	Percent	0
Secondary Lithology	Dolomite	Percent	0
Tertiary Lithology	Chert/Chalcedony	Percent	0
Comments			

System	Devonian		
Series			
Group	Wapsipinicon		
Formation	Pinicon Ridge		
Member	Davenport		
Submember			
Start Depth	215.00 ft	End Depth	235.00 ft
Contact Accuracy			
Penetration			
Primary Lithology	Limestone	Percent	100
Secondary Lithology		Percent	
Tertiary Lithology		Percent	
Comments			

System	Devonian		
Series			
Group	Wapsipinicon		
Formation	Pinicon Ridge		
Member	Spring Grove		
Submember			
Start Depth	235.00 ft	End Depth	255.00 ft
Contact Accuracy			

Penetration			
Primary Lithology	Limestone	Percent	0
Secondary Lithology	Dolomite	Percent	0
Tertiary Lithology	Shale	Percent	0
Comments			

System	Devonian		
Series			
Group	Wapsipinicon		
Formation	Pinicon Ridge		
Member	Kenwood		
Submember			
Start Depth	255.00 ft	End Depth	275.00 ft
Contact Accuracy			
Penetration			
Primary Lithology	Dolomite	Percent	0
Secondary Lithology	Shale	Percent	0
Tertiary Lithology	Chert/Chalcedony	Percent	0
Comments			

System	Devonian		
Series			
Group	Wapsipinicon		
Formation	Otis		
Member			
Submember			
Start Depth	275.00 ft	End Depth	290.00 ft
Contact Accuracy			
Penetration			
Primary Lithology	Limestone	Percent	0
Secondary Lithology	Dolomite	Percent	0
Tertiary Lithology		Percent	
Comments			

System	Devonian		
Series			
Group	Wapsipinicon		
Formation	Otis		
Member			
Submember			
Start Depth	290.00 ft	End Depth	305.00 ft
Contact Accuracy			
Penetration			
Primary Lithology	Dolomite	Percent	100
Secondary Lithology		Percent	
Tertiary Lithology		Percent	
Comments			

System	Silurian		
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Series
Group
Formation Laporte City
Member
Submember
Start Depth 305.00 ft **End Depth** 445.00 ft
Contact Accuracy
Penetration
Primary Lithology Limestone **Percent** 0
Secondary Lithology Chert/Chalcedony **Percent** 0
Tertiary Lithology **Percent**
Comments

System Silurian
Series
Group
Formation
Member
Submember
Start Depth 445.00 ft **End Depth** 510.00 ft
Contact Accuracy
Penetration
Primary Lithology Dolomite **Percent** 0
Secondary Lithology Chert/Chalcedony **Percent** 0
Tertiary Lithology **Percent**
Comments

System Silurian
Series
Group
Formation Tete Des Morts/Mosalem Undiff.
Member
Submember
Start Depth 510.00 ft **End Depth** 521.00 ft
Contact Accuracy
Penetration
Primary Lithology Dolomite **Percent** 0
Secondary Lithology Sandstone **Percent** 0
Tertiary Lithology **Percent**
Comments

System Ordovician
Series
Group
Formation Maquoketa
Member Brainard Shale
Submember
Start Depth 521.00 ft **End Depth** 690.00 ft
Contact Accuracy

Penetration			
Primary Lithology	Shale	Percent	0
Secondary Lithology	Dolomite	Percent	0
Tertiary Lithology		Percent	
Comments			

System	Ordovician		
Series			
Group			
Formation	Maquoketa		
Member	Elgin Limestone		
Submember			
Start Depth	690.00 ft	End Depth	740.00 ft
Contact Accuracy			
Penetration			
Primary Lithology	Shale	Percent	0
Secondary Lithology	Dolomite	Percent	0
Tertiary Lithology	Limestone	Percent	0
Comments			

System	Unknown		
Series			
Group			
Formation			
Member			
Submember			
Start Depth	740.00 ft	End Depth	825.00 ft
Contact Accuracy			
Penetration			
Primary Lithology	Limestone	Percent	0
Secondary Lithology	Dolomite	Percent	0
Tertiary Lithology	Chert/Chalcedony	Percent	0
Comments			

System	Ordovician		
Series			
Group	Galena		
Formation	Dunleith		
Member			
Submember			
Start Depth	825.00 ft	End Depth	940.00 ft
Contact Accuracy			
Penetration			
Primary Lithology	Limestone	Percent	0
Secondary Lithology	Dolomite	Percent	0
Tertiary Lithology	Chert/Chalcedony	Percent	0
Comments			

System	Ordovician		
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Series			
Group	Galena		
Formation	Decorah		
Member	Ion		
Submember			
Start Depth	940.00 ft	End Depth	955.00 ft
Contact Accuracy			
Penetration			
Primary Lithology	Shale	Percent	0
Secondary Lithology	Dolomite	Percent	0
Tertiary Lithology		Percent	
Comments			

System	Ordovician		
Series			
Group	Galena		
Formation	Decorah		
Member	Guttenberg		
Submember			
Start Depth	955.00 ft	End Depth	975.00 ft
Contact Accuracy			
Penetration			
Primary Lithology	Limestone	Percent	0
Secondary Lithology	Shale	Percent	0
Tertiary Lithology		Percent	
Comments			

System	Ordovician		
Series			
Group	Galena		
Formation	Decorah		
Member	Spechts Ferry		
Submember			
Start Depth	975.00 ft	End Depth	981.00 ft
Contact Accuracy			
Penetration			
Primary Lithology	Shale	Percent	100
Secondary Lithology		Percent	
Tertiary Lithology		Percent	
Comments			

System	Ordovician		
Series			
Group	Galena		
Formation	Platteville		
Member	Mcgregor		
Submember			
Start Depth	981.00 ft	End Depth	1020.00 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	Platteville		
Member	Pecatonica		
Submember			
Start Depth	1020.00 ft	End Depth	1036.00 ft
Contact Accuracy			
Penetration			
Primary Lithology	Limestone	Percent	0
Secondary Lithology	Dolomite	Percent	0
Tertiary Lithology		Percent	
Comments			

System	Ordovician		
Series			
Group	Ancell		
Formation	Glenwood		
Member	Harmony Hill		
Submember			
Start Depth	1036.00 ft	End Depth	1042.00 ft
Contact Accuracy			
Penetration			
Primary Lithology	Shale	Percent	100
Secondary Lithology		Percent	
Tertiary Lithology		Percent	
Comments			

System	Ordovician		
Series			
Group	Ancell		
Formation	St. Peter Sandstone		
Member			
Submember			
Start Depth	1042.00 ft	End Depth	1072.00 ft
Contact Accuracy			
Penetration			
Primary Lithology	Sandstone	Percent	100
Secondary Lithology		Percent	
Tertiary Lithology		Percent	
Comments			

System	Ordovician		
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Series			
Group	Prairie Du Chien		
Formation	Shakopee		
Member	Willow River		
Submember			
Start Depth	1072.00 ft	End Depth	1235.00 ft
Contact Accuracy			
Penetration			
Primary Lithology	Dolomite	Percent	0
Secondary Lithology	Sandstone	Percent	0
Tertiary Lithology	Chert/Chalcedony	Percent	0
Comments			

System	Ordovician		
Series			
Group	Prairie Du Chien		
Formation	Shakopee		
Member	New Richmond		
Submember			
Start Depth	1235.00 ft	End Depth	1285.00 ft
Contact Accuracy			
Penetration			
Primary Lithology	Sandstone	Percent	0
Secondary Lithology	Dolomite	Percent	0
Tertiary Lithology		Percent	
Comments			

System	Ordovician		
Series			
Group	Prairie Du Chien		
Formation	Oneota		
Member			
Submember			
Start Depth	1285.00 ft	End Depth	1470.00 ft
Contact Accuracy			
Penetration			
Primary Lithology	Dolomite	Percent	0
Secondary Lithology	Chert/Chalcedony	Percent	0
Tertiary Lithology		Percent	
Comments			

System	Cambrian		
Series			
Group			
Formation	Jordan		
Member			
Submember			
Start Depth	1470.00 ft	End Depth	1610.00 ft
Contact Accuracy			

Penetration			
Primary Lithology	Sandstone	Percent	0
Secondary Lithology	Dolomite	Percent	0
Tertiary Lithology		Percent	
Comments			
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System	Cambrian		
Series			
Group			
Formation	St. Lawrence		
Member			
Submember			
Start Depth	1610.00 ft	End Depth	1622.00 ft
Contact Accuracy			
Penetration			
Primary Lithology	Sandstone	Percent	0
Secondary Lithology	Dolomite	Percent	0
Tertiary Lithology		Percent	
Comments			

Water Production Information

Date	07/06/1948	Start Time	
Aquifer	Unknown		
Static Water Level	60.00 ft	Yield	300 gallons per minute
Pumping Water Level	194 ft	Yield Method	Unknown
Measurement	Unknown	Pump Test	Yes
Pump Method	Unknown	Duration	0 mins
Comments			

Chip Storage Information

Date			
Storage	CD9-3; DA3-18->20	Bin	
Number of Boxes	4	Number of Samples	311
Sample Intervals	0	Sample Gaps	680-690,890-95,1080-85, 1115-19,1205-10,1490-95
Sample Top	0 ft	Sample Bottom	1622 ft
Washed Top	33 ft	Washed Bottom	1622 ft
Duplicate Storage			
Comments			