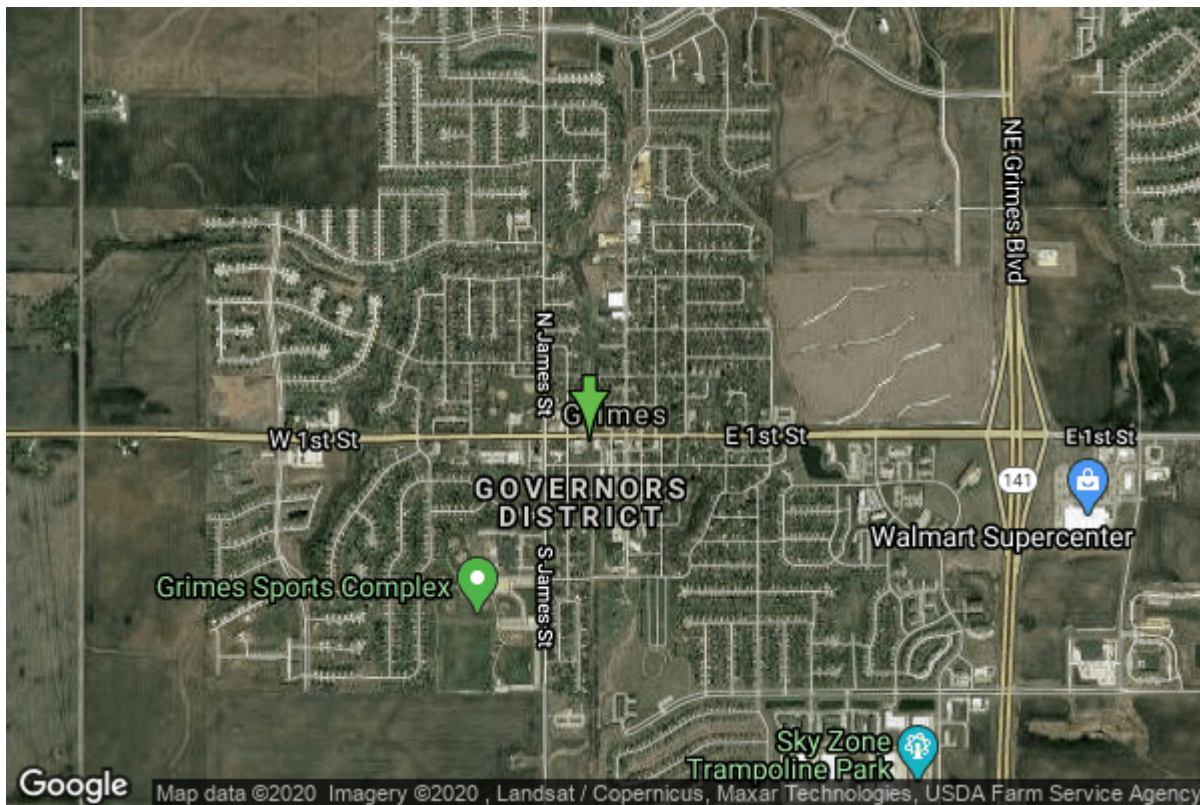


Well W#17920 Information



Date Received		State	Iowa
Owner Name	Grimes, City Of	County	Polk
Alt Name	#1	Quadrangle	Grimes, Iowa
WNumber	17920	Township	T79N
PWTS ID	0	Range	R25W
PWS ID	7736011	Section	5
Storet ID	0	Quarter	NW NW NE
SDWIS ID	2409109	Latitude	41.6881400000
USGS ID	0	Longitude	-93.7919200000
Project	Source Water Protection	Accuracy	
Operator	Unknown	UTM X	434096
		UTM Y	4615455

Site Type	Drilled hole	Drilling Company	Layne Western - Ia.
Well Status	Not Used	Drilling Date	08/09/1966
Field Located	No	Drilling Method	Unknown
Elevation	958 ft	Bedrock Depth	0 ft
Elevation Accuracy	Digital Elevation Model Accurate to 5 ft	Well Depth	2602 ft
Landscape Position	Unknown	Total Depth	2602 ft
		Well Types	Municipal, Public Supply
		Aquifers	Cambrian-Ordovician

Casing Construction Information

Date	01/01/2014	Casing Type	
Start Depth	0.00 ft	End Depth	2105.00 ft

Diameter	6.63 in	Amount	0.00 ft
Comments	record from DNR Jordan questionnaire		
Date	08/09/1966	Casing Type	Steel
Start Depth	0.00 ft	End Depth	50.00 ft
Diameter	26.00 in	Amount	50.00 ft
Comments			
Date	08/09/1966	Casing Type	Steel
Start Depth	0.00 ft	End Depth	428.00 ft
Diameter	24.00 in	Amount	428.00 ft
Comments			
Date	08/09/1966	Casing Type	Steel
Start Depth	745.00 ft	End Depth	845.00 ft
Diameter	22.00 in	Amount	100.00 ft
Comments			
Date	08/09/1966	Casing Type	Steel
Start Depth	0.00 ft	End Depth	846.00 ft
Diameter	18.00 in	Amount	846.00 ft
Comments			
Date	08/09/1966	Casing Type	Steel
Start Depth	800.00 ft	End Depth	2105.00 ft
Diameter	8.00 in	Amount	1305.00 ft
Comments			

Grout Construction Information

Date	08/09/1966	Casing Type	Steel
Grout Type	Cement	Grout Placement	Unknown
Start Depth	0.00 ft	End Depth	1305.00 ft
Comments			

Log Information

Date	01/15/1966	Casing Type	Steel
Log Types	Strip log	Grout Placement	Unknown
Prepared By	Unknown	End Depth	1305.00 ft
Comments			
Date	01/15/1966	Casing Type	Steel
Log Types	Drillers log	Grout Placement	Unknown
Prepared By	Grimes, City Of	End Depth	1305.00 ft
Comments			

Stratigraphy Information

System Quaternary
Series
Group
Formation
Member
Submember
Start Depth 0.00 ft **End Depth** 5.00 ft
Contact Accuracy
Penetration
Primary Lithology Soil Or Fill **Percent** 100
Secondary Lithology Unknown **Percent** 0
Tertiary Lithology Unknown **Percent** 0
Comments

System Quaternary
Series Pleistocene Series
Group Pre-Illinoian
Formation
Member
Submember
Start Depth 5.00 ft **End Depth** 50.00 ft
Contact Accuracy
Penetration
Primary Lithology Till - Oxidized And Unleached **Percent** 100
Secondary Lithology Sand And Gravel **Percent** 0
Tertiary Lithology Unknown **Percent** 0
Comments

System Pennsylvanian (Subsystem Of Carboniferous System)
Series
Group
Formation
Member
Submember
Start Depth 50.00 ft **End Depth** 393.00 ft
Contact Accuracy
Penetration
Primary Lithology Shale **Percent** 0
Secondary Lithology Siltstone **Percent** 0
Tertiary Lithology Sandstone **Percent** 0
Comments

System Mississippian (Subsystem Of Carboniferous System)
Series
Group

Formation Member Submember	St. Louis		
Start Depth	393.00 ft	End Depth	440.00 ft
Contact Accuracy Penetration			
Primary Lithology	Dolomite	Percent	0
Secondary Lithology	Sandstone	Percent	0
Tertiary Lithology	Limestone	Percent	0
Comments			

System Series	Mississippian (Subsystem Of Carboniferous System)		
Group	Augusta		
Formation Member	Warsaw		
Submember			
Start Depth	440.00 ft	End Depth	457.00 ft
Contact Accuracy Penetration			
Primary Lithology	Dolomite	Percent	0
Secondary Lithology	Shale	Percent	0
Tertiary Lithology		Percent	
Comments			

System Series	Mississippian (Subsystem Of Carboniferous System)		
Group	Augusta		
Formation Member	Keokuk		
Submember			
Start Depth	457.00 ft	End Depth	560.00 ft
Contact Accuracy Penetration			
Primary Lithology	Dolomite	Percent	0
Secondary Lithology	Chert/Chalcedony	Percent	0
Tertiary Lithology	Shale	Percent	0
Comments			

System Series	Mississippian (Subsystem Of Carboniferous System)		
Group	Augusta		
Formation Member	Burlington		
Submember			
Start Depth	560.00 ft	End Depth	640.00 ft
Contact Accuracy Penetration			
Primary Lithology	Dolomite	Percent	0

Secondary Lithology	Chert/Chalcedony	Percent	0
Tertiary Lithology	Limestone	Percent	0
Comments			

System	Mississippian (Subsystem Of Carboniferous System)		
Series			
Group	Sub-Augusta		
Formation	Gilmore City		
Member			
Submember			
Start Depth	640.00 ft	End Depth	648.00 ft
Contact Accuracy			
Penetration			
Primary Lithology	Limestone	Percent	0
Secondary Lithology	Dolomite	Percent	0
Tertiary Lithology	Unknown	Percent	0
Comments			

System	Mississippian (Subsystem Of Carboniferous System)		
Series			
Group	Sub-Augusta		
Formation	Maynes Creek		
Member			
Submember			
Start Depth	648.00 ft	End Depth	740.00 ft
Contact Accuracy			
Penetration			
Primary Lithology	Dolomite	Percent	0
Secondary Lithology	Chert/Chalcedony	Percent	0
Tertiary Lithology	Unknown	Percent	0
Comments			

System	Mississippian (Subsystem Of Carboniferous System)		
Series			
Group	North Hill		
Formation			
Member			
Submember			
Start Depth	740.00 ft	End Depth	750.00 ft
Contact Accuracy			
Penetration			
Primary Lithology	Dolomite	Percent	100
Secondary Lithology		Percent	
Tertiary Lithology		Percent	
Comments			

System	Devonian		
Series			
Group	Yellow Spring (New Albany)		

Formation Member Submember	Maple Mill		
Start Depth	750.00 ft	End Depth	790.00 ft
Contact Accuracy Penetration			
Primary Lithology	Shale	Percent	100
Secondary Lithology		Percent	
Tertiary Lithology		Percent	
Comments			
System Series	Devonian		
Group Formation Member Submember	Yellow Spring (New Albany) Aplington		
Start Depth	790.00 ft	End Depth	819.00 ft
Contact Accuracy Penetration			
Primary Lithology	Dolomite	Percent	0
Secondary Lithology	Chert/Chalcedony	Percent	0
Tertiary Lithology		Percent	
Comments			
System Series	Devonian		
Group Formation Member Submember	Yellow Spring (New Albany) Sheffield		
Start Depth	819.00 ft	End Depth	821.00 ft
Contact Accuracy Penetration			
Primary Lithology	Shale	Percent	100
Secondary Lithology		Percent	
Tertiary Lithology		Percent	
Comments			
System Series	Devonian		
Group Formation Member Submember			
Start Depth	821.00 ft	End Depth	1420.00 ft
Contact Accuracy Penetration			
Primary Lithology	Dolomite	Percent	0

Secondary Lithology	Limestone	Percent	0
Tertiary Lithology	Gypsum/Anhydrite	Percent	0
Comments			

System	Silurian		
Series			
Group			
Formation	Laporte City		
Member			
Submember			
Start Depth	1420.00 ft	End Depth	1432.00 ft
Contact Accuracy			
Penetration			
Primary Lithology	Chert/Chalcedony	Percent	0
Secondary Lithology	Dolomite	Percent	0
Tertiary Lithology		Percent	
Comments			

System	Silurian		
Series			
Group			
Formation			
Member			
Submember			
Start Depth	1432.00 ft	End Depth	1520.00 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			
Formation	Maquoketa		
Member	Neda		
Submember			
Start Depth	1520.00 ft	End Depth	1535.00 ft
Contact Accuracy			
Penetration			
Primary Lithology	Shale	Percent	100
Secondary Lithology		Percent	
Tertiary Lithology		Percent	
Comments			

System	Ordovician		
Series			
Group			

Formation	Maquoketa		
Member	Brainard Shale		
Submember			
Start Depth	1535.00 ft	End Depth	1600.00 ft
Contact Accuracy			
Penetration			
Primary Lithology	Shale	Percent	100
Secondary Lithology		Percent	
Tertiary Lithology		Percent	
Comments			

System	Ordovician		
Series			
Group			
Formation	Maquoketa		
Member	Ft. Atkinson Limestone		
Submember			
Start Depth	1600.00 ft	End Depth	1745.00 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	Elgin Limestone		
Submember			
Start Depth	1745.00 ft	End Depth	1816.00 ft
Contact Accuracy			
Penetration			
Primary Lithology	Chert/Chalcedony	Percent	0
Secondary Lithology	Dolomite	Percent	0
Tertiary Lithology		Percent	
Comments			

System	Ordovician		
Series			
Group	Galena		
Formation			
Member			
Submember			
Start Depth	1816.00 ft	End Depth	1890.00 ft
Contact Accuracy			
Penetration			
Primary Lithology	Dolomite	Percent	0

Secondary Lithology	Chert/Chalcedony	Percent	0
Tertiary Lithology	Unknown	Percent	0
Comments			

System	Ordovician		
Series			
Group	Galena		
Formation	Dunleith		
Member			
Submember			
Start Depth	1890.00 ft	End Depth	1985.00 ft
Contact Accuracy			
Penetration			
Primary Lithology	Dolomite	Percent	0
Secondary Lithology	Chert/Chalcedony	Percent	0
Tertiary Lithology		Percent	
Comments			

System	Ordovician		
Series			
Group	Galena		
Formation	Decorah		
Member	Ion		
Submember			
Start Depth	1985.00 ft	End Depth	1995.00 ft
Contact Accuracy			
Penetration			
Primary Lithology	Dolomite	Percent	0
Secondary Lithology	Shale	Percent	0
Tertiary Lithology		Percent	
Comments			

System	Ordovician		
Series			
Group	Galena		
Formation	Decorah		
Member	Guttenberg		
Submember			
Start Depth	1995.00 ft	End Depth	2005.00 ft
Contact Accuracy			
Penetration			
Primary Lithology	Limestone	Percent	0
Secondary Lithology	Shale	Percent	0
Tertiary Lithology		Percent	
Comments			

System	Ordovician
Series	
Group	Galena

Formation Member Submember	Decorah Spechts Ferry		
Start Depth	2005.00 ft	End Depth	2015.00 ft
Contact Accuracy Penetration			
Primary Lithology	Shale	Percent	100
Secondary Lithology		Percent	
Tertiary Lithology		Percent	
Comments			
System Series	Ordovician		
Group Formation Member Submember	Galena Platteville Mcgregor		
Start Depth	2015.00 ft	End Depth	2023.00 ft
Contact Accuracy Penetration			
Primary Lithology	Limestone	Percent	100
Secondary Lithology		Percent	
Tertiary Lithology		Percent	
Comments			
System Series	Ordovician		
Group Formation Member Submember	Galena Platteville Pecatonica		
Start Depth	2023.00 ft	End Depth	2047.00 ft
Contact Accuracy Penetration			
Primary Lithology	Limestone	Percent	100
Secondary Lithology		Percent	
Tertiary Lithology		Percent	
Comments			
System Series	Ordovician		
Group Formation Member Submember	Ancell St. Peter Sandstone		
Start Depth	2047.00 ft	End Depth	2080.00 ft
Contact Accuracy Penetration			
Primary Lithology	Sandstone	Percent	100

Secondary Lithology		Percent	
Tertiary Lithology		Percent	
Comments			

System	Ordovician		
Series			
Group	Prairie Du Chien		
Formation	Shakopee		
Member	Willow River		
Submember			
Start Depth	2080.00 ft	End Depth	2240.00 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	2240.00 ft	End Depth	2333.00 ft
Contact Accuracy			
Penetration			
Primary Lithology	Sandstone	Percent	0
Secondary Lithology	Dolomite	Percent	0
Tertiary Lithology	Chert/Chalcedony	Percent	0
Comments			

System	Ordovician		
Series			
Group	Prairie Du Chien		
Formation	Oneota		
Member			
Submember			
Start Depth	2333.00 ft	End Depth	2504.00 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	2504.00 ft	End Depth	2534.00 ft
Contact Accuracy			
Penetration			
Primary Lithology	Sandstone	Percent	0
Secondary Lithology	Dolomite	Percent	0
Tertiary Lithology		Percent	
Comments			

System	Cambrian		
Series			
Group			
Formation	St. Lawrence		
Member			
Submember			
Start Depth	2534.00 ft	End Depth	2602.00 ft
Contact Accuracy			
Penetration			
Primary Lithology	Dolomite	Percent	0
Secondary Lithology	Sandstone	Percent	0
Tertiary Lithology		Percent	
Comments			

Water Production Information

Date	05/02/2014	Start Time	
Aquifer			
Static Water Level	345.00 ft	Yield	0 gallons per minute
Pumping Water Level	410 ft	Yield Method	
Measurement	Airline	Pump Test	No
Pump Method		Duration	0 mins
Comments			

Date	08/09/1966	Start Time	
Aquifer	Unknown		
Static Water Level	215.00 ft	Yield	820 gallons per minute
Pumping Water Level	230 ft	Yield Method	Unknown
Measurement	Unknown	Pump Test	No
Pump Method	Unknown	Duration	0 mins
Comments			

Chip Storage Information

Date	08/15/1966		
Storage	PL6-652->658	Bin	

Number of Boxes	7	Number of Samples	510
Sample Intervals	5	Sample Gaps	15-20,1050-55,1370-80,2 130-45,2365-75,2405-10
Sample Top	0 ft	Sample Bottom	2602 ft
Washed Top	345 ft	Washed Bottom	2602 ft
Duplicate Storage			
Comments			

<https://www.iihr.uiowa.edu/igs/geosam/well/17920/general-information>