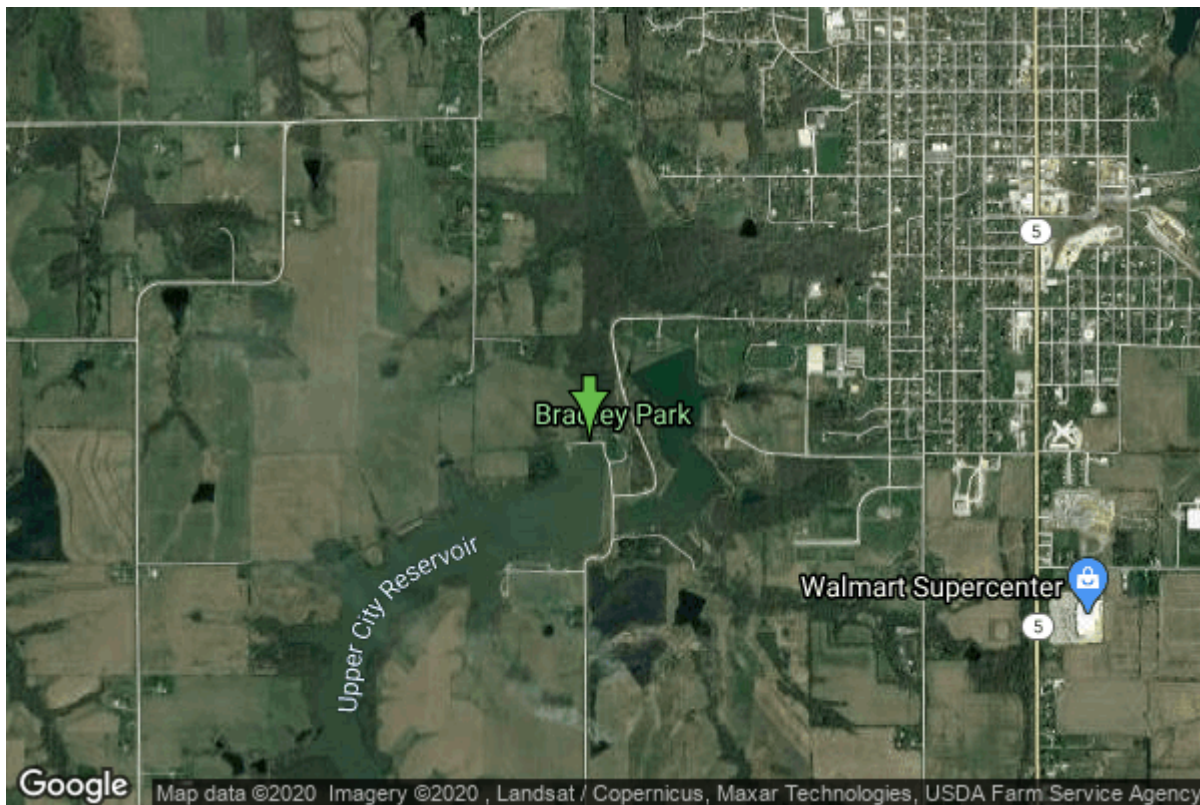


# Well W#20574 Information



<b>Date Received</b>		<b>State</b>	Iowa
<b>Owner Name</b>	Centerville, City Of	<b>County</b>	Appanoose
<b>Alt Name</b>	JORDAN	<b>Quadrangle</b>	Centerville West, Iowa
<b>WNumber</b>	20574	<b>Township</b>	T68N
<b>PWTS ID</b>	0	<b>Range</b>	R18W
<b>PWS ID</b>	407008	<b>Section</b>	1
<b>Storet ID</b>	0	<b>Quarter</b>	SW NW SW
<b>SDWIS ID</b>	2409552	<b>Latitude</b>	40.7147900000
<b>USGS ID</b>	0	<b>Longitude</b>	-92.8863170000
<b>Project</b>	Source Water Protection	<b>Accuracy</b>	
<b>Operator</b>	Unknown	<b>UTM X</b>	509602
		<b>UTM Y</b>	4507103

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<b>Site Type</b>	Drilled hole	<b>Drilling Company</b>	Varner Well Co.
<b>Well Status</b>	Standby	<b>Drilling Date</b>	07/22/1968
<b>Field Located</b>	No	<b>Drilling Method</b>	Rotary
<b>Elevation</b>	1000 ft	<b>Bedrock Depth</b>	58 ft
<b>Elevation Accuracy</b>	Digital Elevation Model	<b>Well Depth</b>	2372 ft
	Accurate to 5 ft	<b>Total Depth</b>	2372 ft
<b>Landscape Position</b>	Upland	<b>Well Types</b>	Municipal, Public Supply
		<b>Aquifers</b>	Cambrian-Ordovician

## Casing Construction Information

<b>Date</b>	07/22/1968	<b>Casing Type</b>	Steel
<b>Start Depth</b>	0.00 ft	<b>End Depth</b>	0.00 ft

<b>Diameter</b>	12.80 in	<b>Amount</b>	1833.00 ft
<b>Comments</b>			

## Grout Construction Information

<b>Date</b>	07/22/1968		
<b>Grout Type</b>	Cement	<b>Grout Placement</b>	Unknown
<b>Start Depth</b>	0.00 ft	<b>End Depth</b>	1833.00 ft
<b>Comments</b>			

## Log Information

<b>Date</b>	08/01/1968
<b>Log Types</b>	Strip log
<b>Prepared By</b>	Unknown
<b>Comments</b>	

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<b>Date</b>	
<b>Log Types</b>	Drillers log
<b>Prepared By</b>	Centerville, City Of
<b>Comments</b>	

## Stratigraphy Information

<b>System</b>	Quaternary		
<b>Series</b>	Pleistocene Series		
<b>Group</b>			
<b>Formation</b>			
<b>Member</b>			
<b>Submember</b>			
<b>Start Depth</b>	0.00 ft	<b>End Depth</b>	30.00 ft
<b>Contact Accuracy</b>			
<b>Penetration</b>			
<b>Primary Lithology</b>	Sand	<b>Percent</b>	0
<b>Secondary Lithology</b>	Sand And Gravel	<b>Percent</b>	0
<b>Tertiary Lithology</b>	Unknown	<b>Percent</b>	0
<b>Comments</b>			

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<b>System</b>	Quaternary		
<b>Series</b>	Pleistocene Series		
<b>Group</b>	Pre-Illinoian		
<b>Formation</b>			
<b>Member</b>			
<b>Submember</b>			
<b>Start Depth</b>	30.00 ft	<b>End Depth</b>	40.00 ft
<b>Contact Accuracy</b>			

<b>Penetration</b>			
<b>Primary Lithology</b>	Till - Oxidized And Unleached	<b>Percent</b>	0
<b>Secondary Lithology</b>		<b>Percent</b>	
<b>Tertiary Lithology</b>		<b>Percent</b>	
<b>Comments</b>			
<b>System</b>	Quaternary		
<b>Series</b>	Pleistocene Series		
<b>Group</b>	Pre-Illinoian		
<b>Formation</b>			
<b>Member</b>			
<b>Submember</b>			
<b>Start Depth</b>	40.00 ft	<b>End Depth</b>	50.00 ft
<b>Contact Accuracy</b>			
<b>Penetration</b>			
<b>Primary Lithology</b>	Till - Oxidized And Leached	<b>Percent</b>	0
<b>Secondary Lithology</b>		<b>Percent</b>	
<b>Tertiary Lithology</b>		<b>Percent</b>	
<b>Comments</b>			
<b>System</b>	Quaternary		
<b>Series</b>	Pleistocene Series		
<b>Group</b>			
<b>Formation</b>			
<b>Member</b>			
<b>Submember</b>			
<b>Start Depth</b>	50.00 ft	<b>End Depth</b>	58.00 ft
<b>Contact Accuracy</b>			
<b>Penetration</b>			
<b>Primary Lithology</b>	Silt	<b>Percent</b>	0
<b>Secondary Lithology</b>		<b>Percent</b>	
<b>Tertiary Lithology</b>		<b>Percent</b>	
<b>Comments</b>			
<b>System</b>	Unknown		
<b>Series</b>			
<b>Group</b>			
<b>Formation</b>			
<b>Member</b>			
<b>Submember</b>			
<b>Start Depth</b>	58.00 ft	<b>End Depth</b>	95.00 ft
<b>Contact Accuracy</b>			
<b>Penetration</b>			
<b>Primary Lithology</b>	Limestone	<b>Percent</b>	0
<b>Secondary Lithology</b>	Shale	<b>Percent</b>	0
<b>Tertiary Lithology</b>	Sandstone	<b>Percent</b>	0
<b>Comments</b>			

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<b>System</b>	Unknown		
<b>Series</b>			
<b>Group</b>			
<b>Formation</b>			
<b>Member</b>			
<b>Submember</b>			
<b>Start Depth</b>	95.00 ft	<b>End Depth</b>	502.00 ft
<b>Contact Accuracy</b>			
<b>Penetration</b>			
<b>Primary Lithology</b>	Shale	<b>Percent</b>	0
<b>Secondary Lithology</b>	Sandstone	<b>Percent</b>	0
<b>Tertiary Lithology</b>	Ls/Dol Mixed	<b>Percent</b>	0
<b>Comments</b>			

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<b>System</b>	Mississippian (Subsystem Of Carboniferous System)		
<b>Series</b>			
<b>Group</b>			
<b>Formation</b>	Pella (Ste. Genevieve)		
<b>Member</b>			
<b>Submember</b>			
<b>Start Depth</b>	502.00 ft	<b>End Depth</b>	508.00 ft
<b>Contact Accuracy</b>			
<b>Penetration</b>			
<b>Primary Lithology</b>	Shale	<b>Percent</b>	100
<b>Secondary Lithology</b>		<b>Percent</b>	
<b>Tertiary Lithology</b>		<b>Percent</b>	
<b>Comments</b>			

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<b>System</b>	Mississippian (Subsystem Of Carboniferous System)		
<b>Series</b>			
<b>Group</b>			
<b>Formation</b>	St. Louis		
<b>Member</b>			
<b>Submember</b>			
<b>Start Depth</b>	508.00 ft	<b>End Depth</b>	585.00 ft
<b>Contact Accuracy</b>			
<b>Penetration</b>			
<b>Primary Lithology</b>	Limestone	<b>Percent</b>	0
<b>Secondary Lithology</b>	Sandstone	<b>Percent</b>	0
<b>Tertiary Lithology</b>	Shale	<b>Percent</b>	0
<b>Comments</b>			

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<b>System</b>	Mississippian (Subsystem Of Carboniferous System)		
<b>Series</b>			
<b>Group</b>			
<b>Formation</b>	Spergen		
<b>Member</b>			
<b>Submember</b>			

<b>Start Depth</b>	585.00 ft	<b>End Depth</b>	605.00 ft
<b>Contact Accuracy Penetration</b>			
<b>Primary Lithology</b>	Dolomite	<b>Percent</b>	100
<b>Secondary Lithology</b>		<b>Percent</b>	
<b>Tertiary Lithology</b>		<b>Percent</b>	
<b>Comments</b>			

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<b>System Series</b>	Mississippian (Subsystem Of Carboniferous System)		
<b>Group</b>	Augusta		
<b>Formation</b>	Warsaw		
<b>Member</b>			
<b>Submember</b>			
<b>Start Depth</b>	605.00 ft	<b>End Depth</b>	675.00 ft
<b>Contact Accuracy Penetration</b>			
<b>Primary Lithology</b>	Dolomite	<b>Percent</b>	0
<b>Secondary Lithology</b>	Gypsum/Anhydrite	<b>Percent</b>	0
<b>Tertiary Lithology</b>	Chert/Chalcedony	<b>Percent</b>	0
<b>Comments</b>			

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<b>System Series</b>	Mississippian (Subsystem Of Carboniferous System)		
<b>Group</b>	Augusta		
<b>Formation</b>	Keokuk		
<b>Member</b>			
<b>Submember</b>			
<b>Start Depth</b>	675.00 ft	<b>End Depth</b>	770.00 ft
<b>Contact Accuracy Penetration</b>			
<b>Primary Lithology</b>	Limestone	<b>Percent</b>	0
<b>Secondary Lithology</b>	Chert/Chalcedony	<b>Percent</b>	0
<b>Tertiary Lithology</b>	Dolomite	<b>Percent</b>	0
<b>Comments</b>			

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<b>System Series</b>	Mississippian (Subsystem Of Carboniferous System)		
<b>Group</b>	Augusta		
<b>Formation</b>	Burlington		
<b>Member</b>			
<b>Submember</b>			
<b>Start Depth</b>	770.00 ft	<b>End Depth</b>	865.00 ft
<b>Contact Accuracy Penetration</b>			
<b>Primary Lithology</b>	Limestone	<b>Percent</b>	0
<b>Secondary Lithology</b>	Dolomite	<b>Percent</b>	0
<b>Tertiary Lithology</b>	Chert/Chalcedony	<b>Percent</b>	0
<b>Comments</b>			

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<b>System</b>	Mississippian (Subsystem Of Carboniferous System)		
<b>Series</b>			
<b>Group</b>	Sub-Augusta		
<b>Formation</b>	Gilmore City		
<b>Member</b>	Iowa Falls Dolomite		
<b>Submember</b>			
<b>Start Depth</b>	865.00 ft	<b>End Depth</b>	876.00 ft
<b>Contact Accuracy</b>			
<b>Penetration</b>			
<b>Primary Lithology</b>	Dolomite	<b>Percent</b>	100
<b>Secondary Lithology</b>		<b>Percent</b>	
<b>Tertiary Lithology</b>		<b>Percent</b>	
<b>Comments</b>			

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<b>System</b>	Mississippian (Subsystem Of Carboniferous System)		
<b>Series</b>			
<b>Group</b>	Sub-Augusta		
<b>Formation</b>	Maynes Creek		
<b>Member</b>	Eagle City		
<b>Submember</b>			
<b>Start Depth</b>	876.00 ft	<b>End Depth</b>	890.00 ft
<b>Contact Accuracy</b>			
<b>Penetration</b>			
<b>Primary Lithology</b>	Dolomite	<b>Percent</b>	0
<b>Secondary Lithology</b>	Limestone	<b>Percent</b>	0
<b>Tertiary Lithology</b>		<b>Percent</b>	
<b>Comments</b>			

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<b>System</b>	Mississippian (Subsystem Of Carboniferous System)		
<b>Series</b>			
<b>Group</b>	Sub-Augusta		
<b>Formation</b>	Maynes Creek		
<b>Member</b>			
<b>Submember</b>			
<b>Start Depth</b>	890.00 ft	<b>End Depth</b>	939.00 ft
<b>Contact Accuracy</b>			
<b>Penetration</b>			
<b>Primary Lithology</b>	Dolomite	<b>Percent</b>	0
<b>Secondary Lithology</b>	Limestone	<b>Percent</b>	0
<b>Tertiary Lithology</b>	Chert/Chalcedony	<b>Percent</b>	0
<b>Comments</b>			

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<b>System</b>	Mississippian (Subsystem Of Carboniferous System)		
<b>Series</b>			
<b>Group</b>	North Hill		
<b>Formation</b>			
<b>Member</b>			
<b>Submember</b>			

<b>Start Depth</b>	939.00 ft	<b>End Depth</b>	975.00 ft
<b>Contact Accuracy</b>			
<b>Penetration</b>			
<b>Primary Lithology</b>	Limestone	<b>Percent</b>	100
<b>Secondary Lithology</b>		<b>Percent</b>	
<b>Tertiary Lithology</b>		<b>Percent</b>	
<b>Comments</b>			

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<b>System</b>	Devonian		
<b>Series</b>			
<b>Group</b>	Yellow Spring (New Albany)		
<b>Formation</b>	Maple Mill		
<b>Member</b>			
<b>Submember</b>			
<b>Start Depth</b>	975.00 ft	<b>End Depth</b>	1010.00 ft
<b>Contact Accuracy</b>			
<b>Penetration</b>			
<b>Primary Lithology</b>	Shale	<b>Percent</b>	100
<b>Secondary Lithology</b>		<b>Percent</b>	
<b>Tertiary Lithology</b>		<b>Percent</b>	
<b>Comments</b>			

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<b>System</b>	Devonian		
<b>Series</b>			
<b>Group</b>	Yellow Spring (New Albany)		
<b>Formation</b>	Aplington		
<b>Member</b>			
<b>Submember</b>			
<b>Start Depth</b>	1010.00 ft	<b>End Depth</b>	1025.00 ft
<b>Contact Accuracy</b>			
<b>Penetration</b>			
<b>Primary Lithology</b>	Dolomite	<b>Percent</b>	100
<b>Secondary Lithology</b>		<b>Percent</b>	
<b>Tertiary Lithology</b>		<b>Percent</b>	
<b>Comments</b>			

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<b>System</b>	Devonian		
<b>Series</b>			
<b>Group</b>	Yellow Spring (New Albany)		
<b>Formation</b>	Sheffield		
<b>Member</b>			
<b>Submember</b>			
<b>Start Depth</b>	1025.00 ft	<b>End Depth</b>	1040.00 ft
<b>Contact Accuracy</b>			
<b>Penetration</b>			
<b>Primary Lithology</b>	Dolomite	<b>Percent</b>	0
<b>Secondary Lithology</b>	Shale	<b>Percent</b>	0
<b>Tertiary Lithology</b>		<b>Percent</b>	
<b>Comments</b>			

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<b>System</b>	Devonian		
<b>Series</b>			
<b>Group</b>	Yellow Spring (New Albany)		
<b>Formation</b>	Lime Creek		
<b>Member</b>			
<b>Submember</b>			
<b>Start Depth</b>	1040.00 ft	<b>End Depth</b>	1145.00 ft
<b>Contact Accuracy</b>			
<b>Penetration</b>			
<b>Primary Lithology</b>	Limestone	<b>Percent</b>	100
<b>Secondary Lithology</b>		<b>Percent</b>	
<b>Tertiary Lithology</b>		<b>Percent</b>	
<b>Comments</b>			

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<b>System</b>	Unknown		
<b>Series</b>			
<b>Group</b>			
<b>Formation</b>			
<b>Member</b>			
<b>Submember</b>			
<b>Start Depth</b>	1145.00 ft	<b>End Depth</b>	1375.00 ft
<b>Contact Accuracy</b>			
<b>Penetration</b>			
<b>Primary Lithology</b>	Limestone	<b>Percent</b>	0
<b>Secondary Lithology</b>	Dolomite	<b>Percent</b>	0
<b>Tertiary Lithology</b>	Chert/Chalcedony	<b>Percent</b>	0
<b>Comments</b>			

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<b>System</b>	Devonian		
<b>Series</b>			
<b>Group</b>	Wapsipinicon		
<b>Formation</b>			
<b>Member</b>			
<b>Submember</b>			
<b>Start Depth</b>	1375.00 ft	<b>End Depth</b>	1450.00 ft
<b>Contact Accuracy</b>			
<b>Penetration</b>			
<b>Primary Lithology</b>	Dolomite	<b>Percent</b>	0
<b>Secondary Lithology</b>	Limestone	<b>Percent</b>	0
<b>Tertiary Lithology</b>	Sandstone	<b>Percent</b>	0
<b>Comments</b>			

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<b>System</b>	Unknown		
<b>Series</b>			
<b>Group</b>			
<b>Formation</b>			
<b>Member</b>			
<b>Submember</b>			



<b>Start Depth</b>	1450.00 ft	<b>End Depth</b>	1635.00 ft
<b>Contact Accuracy</b>			
<b>Penetration</b>			
<b>Primary Lithology</b>	Dolomite	<b>Percent</b>	0
<b>Secondary Lithology</b>	Chert/Chalcedony	<b>Percent</b>	0
<b>Tertiary Lithology</b>		<b>Percent</b>	
<b>Comments</b>			

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<b>System</b>	Ordovician		
<b>Series</b>			
<b>Group</b>	Galena		
<b>Formation</b>	Decorah/Platteville Undiff.		
<b>Member</b>			
<b>Submember</b>			
<b>Start Depth</b>	1635.00 ft	<b>End Depth</b>	1695.00 ft
<b>Contact Accuracy</b>			
<b>Penetration</b>			
<b>Primary Lithology</b>	Dolomite	<b>Percent</b>	0
<b>Secondary Lithology</b>	Shale	<b>Percent</b>	0
<b>Tertiary Lithology</b>		<b>Percent</b>	
<b>Comments</b>			

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<b>System</b>	Ordovician		
<b>Series</b>			
<b>Group</b>	Ancell		
<b>Formation</b>	St. Peter Sandstone		
<b>Member</b>			
<b>Submember</b>			
<b>Start Depth</b>	1695.00 ft	<b>End Depth</b>	1730.00 ft
<b>Contact Accuracy</b>			
<b>Penetration</b>			
<b>Primary Lithology</b>	Sandstone	<b>Percent</b>	0
<b>Secondary Lithology</b>	Shale	<b>Percent</b>	0
<b>Tertiary Lithology</b>		<b>Percent</b>	
<b>Comments</b>			

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<b>System</b>	Ordovician		
<b>Series</b>			
<b>Group</b>	Prairie Du Chien		
<b>Formation</b>	Shakopee		
<b>Member</b>	Willow River		
<b>Submember</b>			
<b>Start Depth</b>	1730.00 ft	<b>End Depth</b>	1920.00 ft
<b>Contact Accuracy</b>			
<b>Penetration</b>			
<b>Primary Lithology</b>	Dolomite	<b>Percent</b>	0
<b>Secondary Lithology</b>	Chert/Chalcedony	<b>Percent</b>	0
<b>Tertiary Lithology</b>	Shale	<b>Percent</b>	0
<b>Comments</b>			

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<b>System</b>	Ordovician		
<b>Series</b>			
<b>Group</b>	Prairie Du Chien		
<b>Formation</b>	Shakopee		
<b>Member</b>	New Richmond		
<b>Submember</b>			
<b>Start Depth</b>	1920.00 ft	<b>End Depth</b>	2020.00 ft
<b>Contact Accuracy</b>			
<b>Penetration</b>			
<b>Primary Lithology</b>	Dolomite	<b>Percent</b>	0
<b>Secondary Lithology</b>	Sandstone	<b>Percent</b>	0
<b>Tertiary Lithology</b>	Chert/Chalcedony	<b>Percent</b>	0
<b>Comments</b>			

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<b>System</b>	Ordovician		
<b>Series</b>			
<b>Group</b>	Prairie Du Chien		
<b>Formation</b>	Oneota		
<b>Member</b>			
<b>Submember</b>			
<b>Start Depth</b>	2020.00 ft	<b>End Depth</b>	2245.00 ft
<b>Contact Accuracy</b>			
<b>Penetration</b>			
<b>Primary Lithology</b>	Dolomite	<b>Percent</b>	0
<b>Secondary Lithology</b>	Chert/Chalcedony	<b>Percent</b>	0
<b>Tertiary Lithology</b>		<b>Percent</b>	
<b>Comments</b>			

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<b>System</b>	Cambrian		
<b>Series</b>			
<b>Group</b>			
<b>Formation</b>	Jordan		
<b>Member</b>			
<b>Submember</b>			
<b>Start Depth</b>	2245.00 ft	<b>End Depth</b>	2285.00 ft
<b>Contact Accuracy</b>			
<b>Penetration</b>			
<b>Primary Lithology</b>	Sandstone	<b>Percent</b>	0
<b>Secondary Lithology</b>	Dolomite	<b>Percent</b>	0
<b>Tertiary Lithology</b>		<b>Percent</b>	
<b>Comments</b>			

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<b>System</b>	Cambrian		
<b>Series</b>			
<b>Group</b>			
<b>Formation</b>	St. Lawrence		
<b>Member</b>			
<b>Submember</b>			

<b>Start Depth</b>	2285.00 ft	<b>End Depth</b>	2372.00 ft
<b>Contact Accuracy</b>			
<b>Penetration</b>			
<b>Primary Lithology</b>	Dolomite	<b>Percent</b>	100
<b>Secondary Lithology</b>		<b>Percent</b>	
<b>Tertiary Lithology</b>		<b>Percent</b>	
<b>Comments</b>			

## Water Production Information

<b>Date</b>	07/22/1968	<b>Start Time</b>	
<b>Aquifer</b>	Unknown		
<b>Static Water Level</b>	348.00 ft	<b>Yield</b>	920 gallons per minute
<b>Pumping Water Level</b>	431 ft	<b>Yield Method</b>	Unknown
<b>Measurement</b>	Unknown	<b>Pump Test</b>	Yes
<b>Pump Method</b>	Unknown	<b>Duration</b>	0 mins
<b>Comments</b>			

## Chip Storage Information

<b>Date</b>	06/21/1968		
<b>Storage</b>	PL7-508->512	<b>Bin</b>	
<b>Number of Boxes</b>	5	<b>Number of Samples</b>	561
<b>Sample Intervals</b>	0	<b>Sample Gaps</b>	120-150,2085-90
<b>Sample Top</b>	0 ft	<b>Sample Bottom</b>	2370 ft
<b>Washed Top</b>	150 ft	<b>Washed Bottom</b>	2370 ft
<b>Duplicate Storage</b>			
<b>Comments</b>			

<https://www.iuhr.uiowa.edu/igs/geosam/well/20574/general-information>