

# Well W#1109 Information



<b>Date Received</b>		<b>State</b>	Iowa
<b>Owner Name</b>	Wildcat Den State Park	<b>County</b>	Muscatine
<b>Alt Name</b>	WELL 1, SHELTER HOUSE	<b>Quadrangle</b>	Illinois City, Iowa-Ill.
<b>WNumber</b>	1109	<b>Township</b>	T77N
<b>PWTS ID</b>	0	<b>Range</b>	R1E
<b>PWS ID</b>	7048951	<b>Section</b>	18
<b>Storet ID</b>	0	<b>Quarter</b>	SE NE SE
<b>SDWIS ID</b>	2413412	<b>Latitude</b>	41.4703410000
<b>USGS ID</b>	0	<b>Longitude</b>	-90.8833750000
<b>Project</b>	Source Water Protection	<b>Accuracy</b>	
<b>Operator</b>	Unknown	<b>UTM X</b>	676745
		<b>UTM Y</b>	4593134

<b>Site Type</b>	Drilled hole	<b>Drilling Company</b>	Mccutcheon, Frank
<b>Well Status</b>	Active	<b>Drilling Date</b>	01/24/1940
<b>Field Located</b>	No	<b>Drilling Method</b>	Cable
<b>Elevation</b>	731 ft	<b>Bedrock Depth</b>	45 ft
<b>Elevation Accuracy</b>	Digital Elevation Model Accurate to 5 ft	<b>Well Depth</b>	390 ft
<b>Landscape Position</b>	Upland	<b>Total Depth</b>	390 ft
		<b>Well Types</b>	Public Supply
		<b>Aquifers</b>	Silurian

## Casing Construction Information

<b>Date</b>	01/24/1940	<b>Casing Type</b>	Steel
<b>Start Depth</b>	-3.80 ft	<b>End Depth</b>	217.80 ft

<b>Diameter</b>	6.00 in	<b>Amount</b>	221.60 ft
<b>Comments</b>			

## Log Information

<b>Date</b>	11/10/1950
<b>Log Types</b>	Strip log
<b>Prepared By</b>	Screven, Ruth E. Wehner
<b>Comments</b>	

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<b>Date</b>	01/17/1942
<b>Log Types</b>	Strip log
<b>Prepared By</b>	Davis
<b>Comments</b>	Copied from Carmody, R. A. (1940-05-01)

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<b>Date</b>	01/25/1940
<b>Log Types</b>	Strip log
<b>Prepared By</b>	Schuldt, Walter Carl
<b>Comments</b>	

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<b>Date</b>	01/24/1940
<b>Log Types</b>	Drillers log
<b>Prepared By</b>	Mccutcheon, Frank
<b>Comments</b>	

## Stratigraphy Information

<b>System</b>	Quaternary		
<b>Series</b>			
<b>Group</b>			
<b>Formation</b>			
<b>Member</b>			
<b>Submember</b>			
<b>Start Depth</b>	0.00 ft	<b>End Depth</b>	20.00 ft
<b>Contact Accuracy</b>			
<b>Penetration</b>			
<b>Primary Lithology</b>	Loess	<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>	Quaternary
<b>Series</b>	Pleistocene Series
<b>Group</b>	
<b>Formation</b>	
<b>Member</b>	
<b>Submember</b>	

<b>Start Depth</b>	20.00 ft	<b>End Depth</b>	45.00 ft
<b>Contact Accuracy</b>			
<b>Penetration</b>			
<b>Primary Lithology</b>	Till	<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>	Pennsylvanian (Subsystem Of Carboniferous System)		
<b>Series</b>			
<b>Group</b>	Cherokee		
<b>Formation</b>			
<b>Member</b>			
<b>Submember</b>			
<b>Start Depth</b>	45.00 ft	<b>End Depth</b>	250.00 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>		<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>	250.00 ft	<b>End Depth</b>	285.00 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>	Wapsipinicon		
<b>Formation</b>			
<b>Member</b>			
<b>Submember</b>			
<b>Start Depth</b>	285.00 ft	<b>End Depth</b>	331.00 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>	Sandstone	<b>Percent</b>	0
<b>Comments</b>			

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<b>System</b>	Silurian		
<b>Series</b>			
<b>Group</b>			
<b>Formation</b>	Gower		
<b>Member</b>			
<b>Submember</b>			
<b>Start Depth</b>	331.00 ft	<b>End Depth</b>	380.00 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>			

## Water Production Information

<b>Date</b>	01/24/1940	<b>Start Time</b>	
<b>Aquifer</b>	Unknown		
<b>Static Water Level</b>	153.00 ft	<b>Yield</b>	10 gallons per minute
<b>Pumping Water Level</b>	173 ft	<b>Yield Method</b>	Unknown
<b>Measurement</b>	Unknown	<b>Pump Test</b>	No
<b>Pump Method</b>	Unknown	<b>Duration</b>	0 mins
<b>Comments</b>			

## Chip Storage Information

<b>Date</b>		<b>Bin</b>	
<b>Storage</b>	WG5-5		
<b>Number of Boxes</b>	1	<b>Number of Samples</b>	75
<b>Sample Intervals</b>	5	<b>Sample Gaps</b>	
<b>Sample Top</b>	0 ft	<b>Sample Bottom</b>	380 ft
<b>Washed Top</b>	0 ft	<b>Washed Bottom</b>	330 ft
<b>Duplicate Storage</b>			
<b>Comments</b>			

<https://www.iuhr.uiowa.edu/igs/geosam/well/1109/general-information>