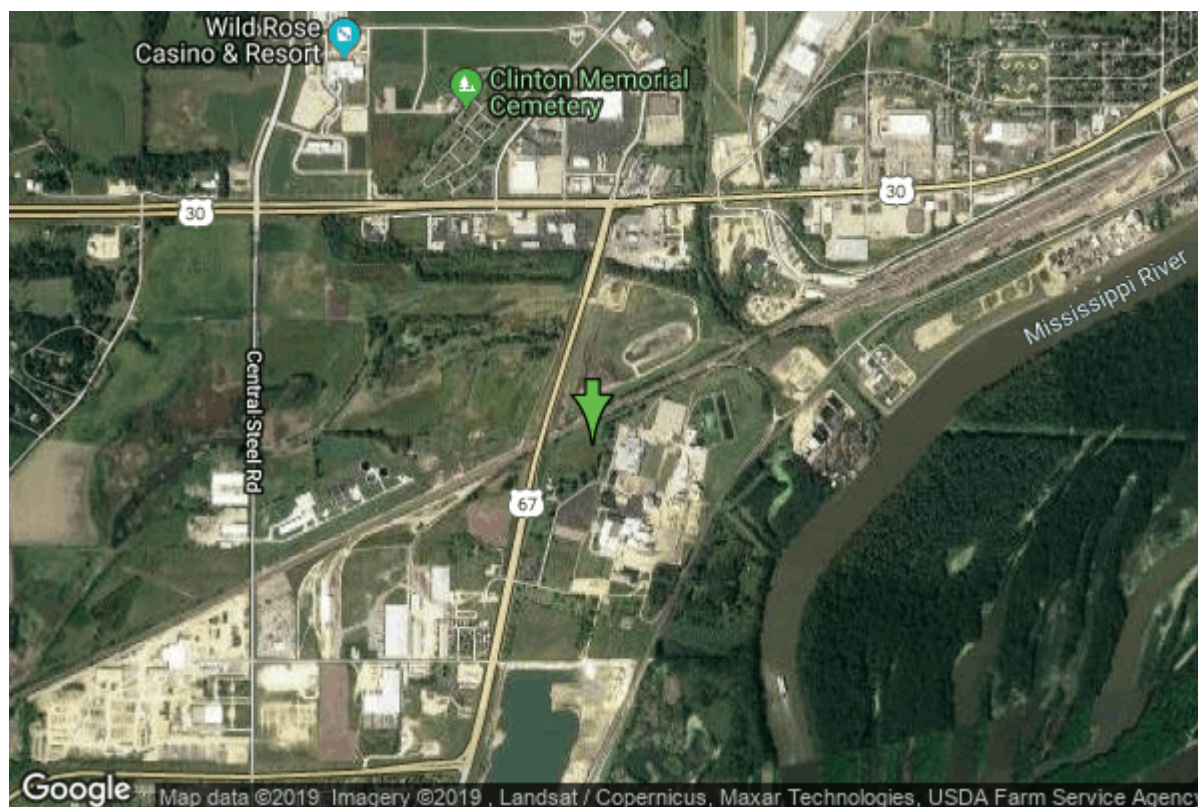


# Well W#2305 Information



<b>Date Received</b>		<b>State</b>	Iowa
<b>Owner Name</b>	Clinton, City Of	<b>County</b>	Clinton
<b>Alt Name</b>	DUPONT #3	<b>Quadrangle</b>	Clinton, Iowa-III.
<b>WNumber</b>	2305	<b>Township</b>	T81N
<b>PWTS ID</b>	0	<b>Range</b>	R6E
<b>PWS ID</b>	2326048	<b>Section</b>	22
<b>Storet ID</b>	0	<b>Quarter</b>	SE NE NW
<b>SDWIS ID</b>	2412374	<b>Latitude</b>	41.8078130000
<b>USGS ID</b>	0	<b>Longitude</b>	-90.2424030000
<b>Project</b>	Source Water Protection	<b>Accuracy</b>	
<b>Operator</b>	Unknown	<b>UTM X</b>	729074
		<b>UTM Y</b>	4632115

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<b>Site Type</b>	Drilled hole	<b>Drilling Company</b>	Varner Well Co.
<b>Well Status</b>	Active	<b>Drilling Date</b>	07/20/1946
<b>Field Located</b>	No	<b>Drilling Method</b>	Unknown
<b>Elevation</b>	593 ft	<b>Bedrock Depth</b>	35 ft
<b>Elevation Accuracy</b>	Digital Elevation Model	<b>Well Depth</b>	1960 ft
	Accurate to 5 ft	<b>Total Depth</b>	1973 ft
<b>Landscape Position</b>	Valley	<b>Well Types</b>	Municipal, Public Supply
		<b>Aquifers</b>	Cambrian (blw St. Lawrence), Cambrian-Ordovician

# Hole Construction Information

<b>Date</b>	07/01/1946	<b>Depth</b>	30.70 ft
<b>Diameter</b>	24.00 in		
<b>Comments</b>			
<hr/>			
<b>Date</b>	07/01/1946	<b>Depth</b>	210.00 ft
<b>Diameter</b>	23.00 in		
<b>Comments</b>			
<hr/>			
<b>Date</b>	07/01/1946	<b>Depth</b>	792.00 ft
<b>Diameter</b>	19.00 in		
<b>Comments</b>			
<hr/>			
<b>Date</b>	07/01/1946	<b>Depth</b>	1975.00 ft
<b>Diameter</b>	15.25 in		
<b>Comments</b>			

# Casing Construction Information

<b>Date</b>	07/01/1946	<b>Casing Type</b>	Steel
<b>Start Depth</b>	0.00 ft	<b>End Depth</b>	30.70 ft
<b>Diameter</b>	24.00 in	<b>Amount</b>	30.70 ft
<b>Comments</b>			
<hr/>			
<b>Date</b>	07/01/1946	<b>Casing Type</b>	Steel
<b>Start Depth</b>	0.00 ft	<b>End Depth</b>	260.00 ft
<b>Diameter</b>	20.00 in	<b>Amount</b>	260.00 ft
<b>Comments</b>			
<hr/>			
<b>Date</b>	07/01/1946	<b>Casing Type</b>	Steel
<b>Start Depth</b>	711.00 ft	<b>End Depth</b>	791.00 ft
<b>Diameter</b>	16.00 in	<b>Amount</b>	80.00 ft
<b>Comments</b>			
<hr/>			
<b>Date</b>		<b>Casing Type</b>	Unknown
<b>Start Depth</b>	0.00 ft	<b>End Depth</b>	760.00 ft
<b>Diameter</b>	0.00 in	<b>Amount</b>	760.00 ft
<b>Comments</b>	Casing information received from Iowa DNR on 3/9/2016.		

# Grout Construction Information

<b>Date</b>	07/01/1946	<b>Grout Placement</b>	Unknown
<b>Grout Type</b>	Cement	<b>End Depth</b>	260.00 ft
<b>Start Depth</b>	0.00 ft		

## Comments

# Log Information

**Date** 01/01/1975  
**Log Types** Strip log  
**Prepared By**  
**Comments**

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**Date** 07/01/1946  
**Log Types** Strip log  
**Prepared By** Parker, Mary Combs  
**Comments**

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**Date** 07/01/1946  
**Log Types** Drillers log  
**Prepared By** Varner Well Co.  
**Comments**

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**Date** 07/01/1946  
**Log Types** Pump Test  
**Prepared By**  
**Comments**

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**Date**  
**Log Types** Unknown  
**Prepared By** Unknown  
**Comments** Casing information received from Iowa DNR on 3/9/2016.

# Stratigraphy Information

**System** Quaternary  
**Series** Pleistocene Series  
**Group** Wisconsinan Episode  
**Formation**  
**Member**  
**Submember**  
**Start Depth** 0.00 ft      **End Depth** 35.00 ft  
**Contact Accuracy**  
**Penetration**  
**Primary Lithology** Sand And Gravel      **Percent** 100  
**Secondary Lithology**      **Percent**  
**Tertiary Lithology**      **Percent**  
**Comments**

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**System** Silurian  
**Series**

<b>Group</b>			
<b>Formation</b>	Hopkinton		
<b>Member</b>			
<b>Submember</b>			
<b>Start Depth</b>	35.00 ft	<b>End Depth</b>	125.00 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>	Silurian		
<b>Series</b>			
<b>Group</b>			
<b>Formation</b>	Blanding		
<b>Member</b>			
<b>Submember</b>			
<b>Start Depth</b>	125.00 ft	<b>End Depth</b>	150.00 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>	Silurian		
<b>Series</b>			
<b>Group</b>			
<b>Formation</b>	Mosalem		
<b>Member</b>			
<b>Submember</b>			
<b>Start Depth</b>	150.00 ft	<b>End Depth</b>	160.00 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>	Ordovician		
<b>Series</b>			
<b>Group</b>			
<b>Formation</b>	Maquoketa		
<b>Member</b>			
<b>Submember</b>			
<b>Start Depth</b>	160.00 ft	<b>End Depth</b>	385.00 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>	Galena		
<b>Formation</b>	Dubuque		
<b>Member</b>			
<b>Submember</b>			
<b>Start Depth</b>	385.00 ft	<b>End Depth</b>	425.00 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>	Ordovician		
<b>Series</b>			
<b>Group</b>	Galena		
<b>Formation</b>	Wise Lake		
<b>Member</b>			
<b>Submember</b>			
<b>Start Depth</b>	425.00 ft	<b>End Depth</b>	495.00 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>	Ordovician		
<b>Series</b>			
<b>Group</b>	Galena		
<b>Formation</b>	Dunleith		
<b>Member</b>			
<b>Submember</b>			
<b>Start Depth</b>	495.00 ft	<b>End Depth</b>	640.00 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>	Ordovician		
<b>Series</b>			

<b>Group</b>	Galena		
<b>Formation</b>	Decorah/Platteville Undiff.		
<b>Member</b>			
<b>Submember</b>			
<b>Start Depth</b>	640.00 ft	<b>End Depth</b>	730.00 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>	Ordovician		
<b>Series</b>			
<b>Group</b>	Ancell		
<b>Formation</b>	Glenwood		
<b>Member</b>			
<b>Submember</b>			
<b>Start Depth</b>	730.00 ft	<b>End Depth</b>	740.00 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>	Ordovician		
<b>Series</b>			
<b>Group</b>	Ancell		
<b>Formation</b>	St. Peter Sandstone		
<b>Member</b>			
<b>Submember</b>			
<b>Start Depth</b>	740.00 ft	<b>End Depth</b>	788.00 ft
<b>Contact Accuracy</b>			
<b>Penetration</b>			
<b>Primary Lithology</b>	Sandstone	<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>	Ordovician		
<b>Series</b>			
<b>Group</b>	Prairie Du Chien		
<b>Formation</b>	Shakopee		
<b>Member</b>			
<b>Submember</b>			
<b>Start Depth</b>	788.00 ft	<b>End Depth</b>	985.00 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>		<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>	Oneota		
<b>Member</b>			
<b>Submember</b>			
<b>Start Depth</b>	985.00 ft	<b>End Depth</b>	1160.00 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>	Cambrian		
<b>Series</b>			
<b>Group</b>			
<b>Formation</b>	Jordan		
<b>Member</b>			
<b>Submember</b>			
<b>Start Depth</b>	1160.00 ft	<b>End Depth</b>	1245.00 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>		<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>	1245.00 ft	<b>End Depth</b>	1405.00 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>	Cambrian		
<b>Series</b>			

<b>Group</b>	Tunnel City		
<b>Formation</b>	Lone Rock		
<b>Member</b>			
<b>Submember</b>			
<b>Start Depth</b>	1405.00 ft	<b>End Depth</b>	1505.00 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>	Cambrian		
<b>Series</b>			
<b>Group</b>	Tunnel City		
<b>Formation</b>	Wonewoc		
<b>Member</b>			
<b>Submember</b>			
<b>Start Depth</b>	1505.00 ft	<b>End Depth</b>	1625.00 ft
<b>Contact Accuracy</b>			
<b>Penetration</b>			
<b>Primary Lithology</b>	Sandstone	<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>	Cambrian		
<b>Series</b>			
<b>Group</b>	Tunnel City		
<b>Formation</b>	Eau Claire		
<b>Member</b>			
<b>Submember</b>			
<b>Start Depth</b>	1625.00 ft	<b>End Depth</b>	1880.00 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>	Cambrian		
<b>Series</b>			
<b>Group</b>	Tunnel City		
<b>Formation</b>	Mt. Simon		
<b>Member</b>			
<b>Submember</b>			
<b>Start Depth</b>	1880.00 ft	<b>End Depth</b>	1975.00 ft
<b>Contact Accuracy</b>			
<b>Penetration</b>			



<b>Primary Lithology</b>	Sandstone	<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>	07/22/1946	<b>Start Time</b>	
<b>Aquifer</b>	Unknown	<b>Yield</b>	2560 gallons per minute
<b>Static Water Level</b>	62.00 ft	<b>Yield Method</b>	Unknown
<b>Pumping Water Level</b>	92 ft	<b>Pump Test</b>	No
<b>Measurement</b>	Unknown	<b>Duration</b>	0 mins
<b>Pump Method</b>	Unknown		
<b>Comments</b>			

## Chip Storage Information

<b>Date</b>		<b>Bin</b>	
<b>Storage</b>	WN11-6->10	<b>Number of Samples</b>	392
<b>Number of Boxes</b>	5	<b>Sample Gaps</b>	830-835,1230-1235,1680-1685,1710-1715,1730-1740
<b>Sample Intervals</b>	0	<b>Sample Bottom</b>	1975 ft
<b>Sample Top</b>	0 ft	<b>Washed Bottom</b>	0 ft
<b>Washed Top</b>	0 ft		
<b>Duplicate Storage</b>			
<b>Comments</b>			

<https://www.iihr.uiowa.edu/igs/geosam/well/2305/general-information>