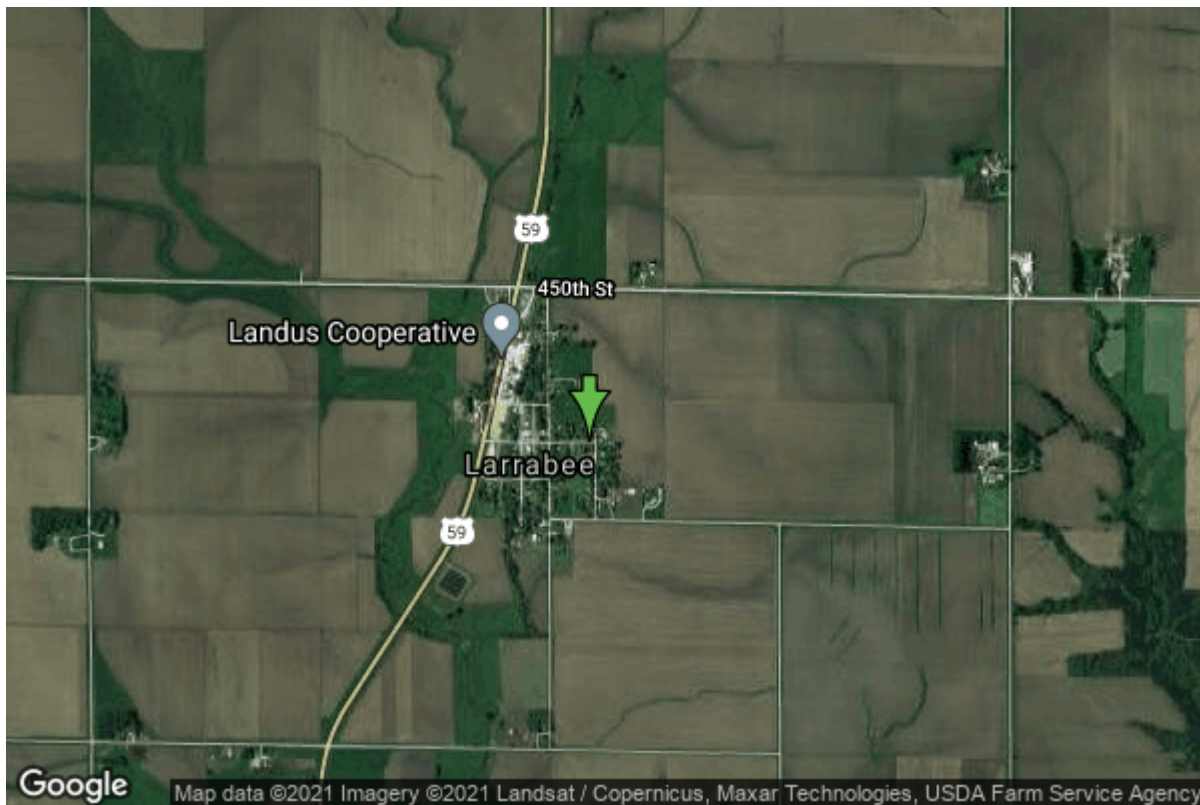


# Well W#12276 Information



|                      |                         |                   |                      |
|----------------------|-------------------------|-------------------|----------------------|
| <b>Date Received</b> |                         | <b>State</b>      | Iowa                 |
| <b>Owner Name</b>    | Larrabee, City Of       | <b>County</b>     | Cherokee             |
| <b>Alt Name</b>      |                         | <b>Quadrangle</b> | Cherokee North, Iowa |
| <b>WNumber</b>       | 12276                   | <b>Township</b>   | T93N                 |
| <b>PWTS ID</b>       | 0                       | <b>Range</b>      | R40W                 |
| <b>PWS ID</b>        | 1833060                 | <b>Section</b>    | 23                   |
| <b>Storet ID</b>     | 0                       | <b>Quarter</b>    | NW SW NW             |
| <b>SDWIS ID</b>      | 0                       | <b>Latitude</b>   | 42.8607600000        |
| <b>USGS ID</b>       | 0                       | <b>Longitude</b>  | -95.5420140000       |
| <b>Project</b>       | Source Water Protection | <b>Accuracy</b>   |                      |
| <b>Operator</b>      | Unknown                 | <b>UTM X</b>      | 292332               |
|                      |                         | <b>UTM Y</b>      | 4748487              |

|                           |   |                         |                   |
|---------------------------|---|-------------------------|-------------------|
| <b>Site Type</b>          | Drilled hole                                | <b>Drilling Company</b> | Unknown           |
| <b>Well Status</b>        | Not Used                                    | <b>Drilling Date</b>    | 03/08/1960        |
| <b>Field Located</b>      | No  | <b>Drilling Method</b>  | Unknown           |
| <b>Elevation</b>          | 1375 ft                                     | <b>Bedrock Depth</b>    | 0 ft              |
| <b>Elevation Accuracy</b> | Digital Elevation Model<br>Accurate to 5 ft | <b>Well Depth</b>       | 385 ft            |
| <b>Landscape Position</b> | Unknown                                     | <b>Total Depth</b>      | 385 ft            |
|                           |   | <b>Well Types</b>       | Municipal         |
|                           |   | <b>Aquifers</b>         | Dakota/Cretaceous |

## Casing Construction Information

|                    |            |                    |         |
|--------------------|------------|--------------------|---------|
| <b>Date</b>        | 03/08/1960 | <b>Casing Type</b> | Unknown |
| <b>Start Depth</b> | 0.00 ft    | <b>End Depth</b>   | 0.00 ft |

|                 |         |               |           |
|-----------------|---------|---------------|-----------|
| <b>Diameter</b> | 8.00 in | <b>Amount</b> | 316.50 ft |
| <b>Comments</b> |         |               |           |

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|                    |            |                    |           |
|--------------------|------------|--------------------|-----------|
| <b>Date</b>        | 03/08/1960 | <b>Casing Type</b> | Unknown   |
| <b>Start Depth</b> | 0.00 ft    | <b>End Depth</b>   | 375.00 ft |
| <b>Diameter</b>    | 4.00 in    | <b>Amount</b>      | 41.40 ft  |
| <b>Comments</b>    |            |                    |           |

## Screen Construction Information

|                    |            |                  |           |
|--------------------|------------|------------------|-----------|
| <b>Date</b>        | 03/08/1960 |                  |           |
| <b>Screen Type</b> | Unknown    | <b>Slot Size</b> | 0.00      |
| <b>Start Depth</b> | 0.00 ft    | <b>End Depth</b> | 380.00 ft |
| <b>Diameter</b>    | 6.00 in    | <b>Amount</b>    | 5 ft      |
| <b>Comments</b>    |            |                  |           |

## Log Information

|                    |                      |
|--------------------|----------------------|
| <b>Date</b>        | 09/29/1961           |
| <b>Log Types</b>   | Strip log            |
| <b>Prepared By</b> | Northup, Richard Cox |
| <b>Comments</b>    |                      |

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|                    |         |
|--------------------|---------|
| <b>Date</b>        |         |
| <b>Log Types</b>   | Unknown |
| <b>Prepared By</b> | Unknown |
| <b>Comments</b>    |         |

## Stratigraphy Information

|                            |                     |                  |         |
|----------------------------|---------------------|------------------|---------|
| <b>System</b>              | Quaternary          |                  |         |
| <b>Series</b>              | Pleistocene Series  |                  |         |
| <b>Group</b>               | Wisconsinan Episode |                  |         |
| <b>Formation</b>           | Peoria              |                  |         |
| <b>Member</b>              |                     |                  |         |
| <b>Submember</b>           |                     |                  |         |
| <b>Start Depth</b>         | 0.00 ft             | <b>End Depth</b> | 5.00 ft |
| <b>Contact Accuracy</b>    |                     |                  |         |
| <b>Penetration</b>         |                     |                  |         |
| <b>Primary Lithology</b>   | Loess               | <b>Percent</b>   | 50      |
| <b>Secondary Lithology</b> | Soil Or Fill        | <b>Percent</b>   | 50      |
| <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>               | Wisconsinan Episode           |                  |          |
| <b>Formation</b>           | Sheldon Creek                 |                  |          |
| <b>Member</b>              |                               |                  |          |
| <b>Submember</b>           |                               |                  |          |
| <b>Start Depth</b>         | 5.00 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>   | 100      |
| <b>Secondary Lithology</b> | Unknown                       | <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>         | 40.00 ft                        | <b>End Depth</b> | 50.00 ft |
| <b>Contact Accuracy</b>    |                                 |                  |          |
| <b>Penetration</b>         |                                 |                  |          |
| <b>Primary Lithology</b>   | Till - Unoxidized And Unleached | <b>Percent</b>   | 70       |
| <b>Secondary Lithology</b> | Till - Oxidized And Unleached   | <b>Percent</b>   | 30       |
| <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>               | Pre-Illinoian                   |                  |           |
| <b>Formation</b>           |                                 |                  |           |
| <b>Member</b>              |                                 |                  |           |
| <b>Submember</b>           |                                 |                  |           |
| <b>Start Depth</b>         | 50.00 ft                        | <b>End Depth</b> | 145.00 ft |
| <b>Contact Accuracy</b>    |                                 |                  |           |
| <b>Penetration</b>         |                                 |                  |           |
| <b>Primary Lithology</b>   | Till - Unoxidized And Unleached | <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>     | Pre-Illinoian      |  |  |
| <b>Formation</b> |                    |  |  |
| <b>Member</b>    |                    |  |  |

|                            |                 |                  |           |
|----------------------------|-----------------|------------------|-----------|
| <b>Submember</b>           |                 |                  |           |
| <b>Start Depth</b>         | 145.00 ft       | <b>End Depth</b> | 175.00 ft |
| <b>Contact Accuracy</b>    |                 |                  |           |
| <b>Penetration</b>         |                 |                  |           |
| <b>Primary Lithology</b>   | Sand And Gravel | <b>Percent</b>   | 100       |
| <b>Secondary Lithology</b> | Unknown         | <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>         | 175.00 ft                     | <b>End Depth</b> | 240.00 ft |
| <b>Contact Accuracy</b>    |                               |                  |           |
| <b>Penetration</b>         |                               |                  |           |
| <b>Primary Lithology</b>   | Till - Oxidized And Unleached | <b>Percent</b>   | 100       |
| <b>Secondary Lithology</b> | Unknown                       | <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>         | 240.00 ft          | <b>End Depth</b> | 270.00 ft |
| <b>Contact Accuracy</b>    |                    |                  |           |
| <b>Penetration</b>         |                    |                  |           |
| <b>Primary Lithology</b>   | Sand And Gravel    | <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>              | Cretaceous                      |                  |           |
| <b>Series</b>              |                                 |                  |           |
| <b>Group</b>               | Fort Benton ("Lower Colorado ") |                  |           |
| <b>Formation</b>           | Dakota                          |                  |           |
| <b>Member</b>              | Woodbury                        |                  |           |
| <b>Submember</b>           |                                 |                  |           |
| <b>Start Depth</b>         | 270.00 ft                       | <b>End Depth</b> | 290.00 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>            |                                 |                  |           |
| <hr/>                      |                                 |                  |           |
| <b>System</b>              | Cretaceous                      |                  |           |
| <b>Series</b>              |                                 |                  |           |
| <b>Group</b>               | Fort Benton ("Lower Colorado ") |                  |           |
| <b>Formation</b>           | Dakota                          |                  |           |
| <b>Member</b>              | Nishnabotna                     |                  |           |
| <b>Submember</b>           |                                 |                  |           |
| <b>Start Depth</b>         | 290.00 ft                       | <b>End Depth</b> | 385.00 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>                | 03/08/1960 | <b>Start Time</b>   |                        |
| <b>Aquifer</b>             | Unknown    |                     |                        |
| <b>Static Water Level</b>  | 195.00 ft  | <b>Yield</b>        | 100 gallons per minute |
| <b>Pumping Water Level</b> | 200 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>              | 08/08/1960 |                          |                 |
| <b>Storage</b>           | TL2-42     | <b>Bin</b>               |                 |
| <b>Number of Boxes</b>   | 1          | <b>Number of Samples</b> | 71              |
| <b>Sample Intervals</b>  | 5          | <b>Sample Gaps</b>       | 330-335,290-295 |
| <b>Sample Top</b>        | 0 ft       | <b>Sample Bottom</b>     | 365 ft          |
| <b>Washed Top</b>        | 0 ft       | <b>Washed Bottom</b>     | 0 ft            |
| <b>Duplicate Storage</b> |            |                          |                 |
| <b>Comments</b>          |            |                          |                 |

<https://www.iuhr.uiowa.edu/igs/geosam/well/12276/general-information>