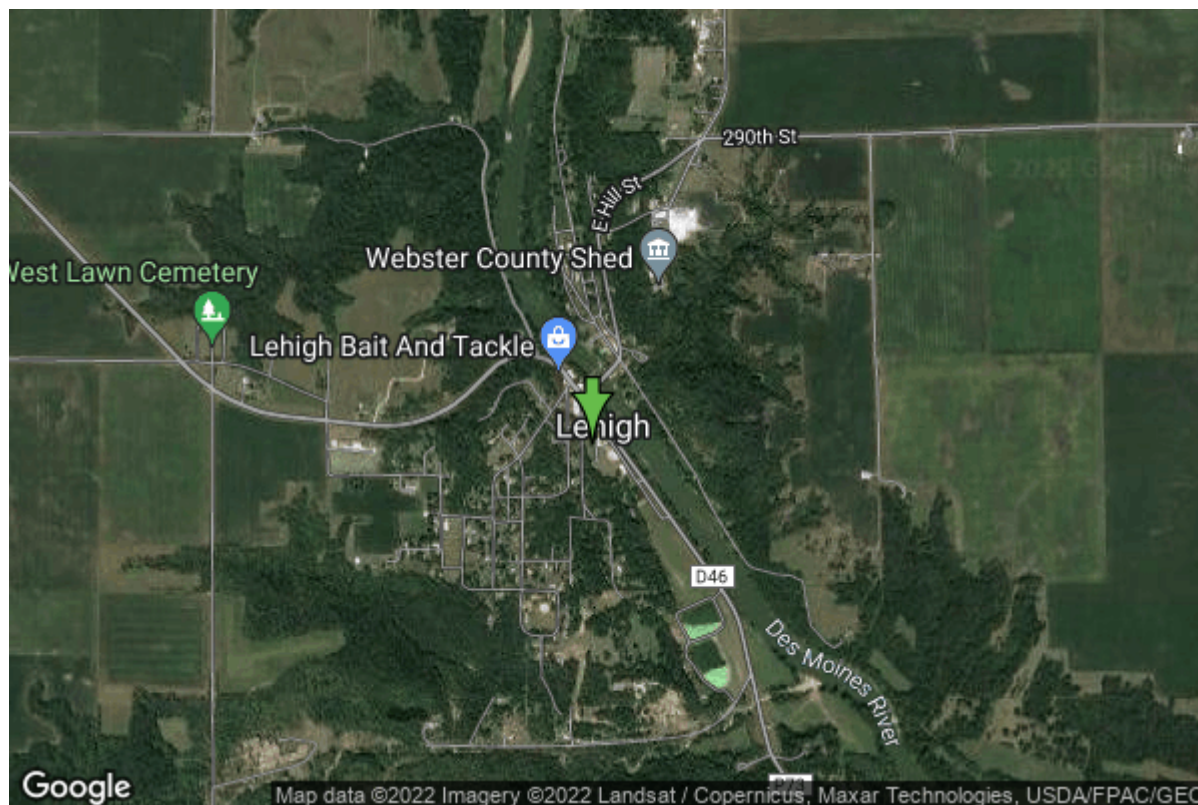


Well W#489 Information



| | | | |
|----------------------|-------------------------|-------------------|----------------|
| Date Received | | State | Iowa |
| Owner Name | Lehigh, City Of | County | Webster |
| Alt Name | #2 | Quadrangle | Lehigh, Iowa |
| WNumber | 489 | Township | T87N |
| PWTS ID | 0 | Range | R28W |
| PWS ID | 9453071 | Section | 12 |
| Storet ID | 0 | Quarter | SE NE SW |
| SDWIS ID | 2411642 | Latitude | 42.3585190000 |
| USGS ID | 0 | Longitude | -94.0507030000 |
| Project | Source Water Protection | Accuracy | |
| Operator | Unknown | UTM X | 413473 |
| | | UTM Y | 4690118 |

| | | | |
|---------------------------|---|-------------------------|--------------------------|
| Site Type | Drilled hole | Drilling Company | Thorpe Well Co. |
| Well Status | Standby | Drilling Date | 04/01/1937 |
| Field Located | No | Drilling Method | Unknown |
| Elevation | 947 ft | Bedrock Depth | 27 ft |
| Elevation Accuracy | Digital Elevation Model Accurate to 5 ft | Well Depth | 1005 ft |
| Landscape Position | Unknown | Total Depth | 1005 ft |
| | | Well Types | Municipal, Public Supply |
| | | Aquifers | Devonian |

Casing Construction Information

| | | | |
|--------------------|------------|--------------------|-----------|
| Date | 04/01/1937 | Casing Type | Steel |
| Start Depth | 0.00 ft | End Depth | 216.00 ft |

| | | | |
|-----------------|----------|---------------|-----------|
| Diameter | 12.00 in | Amount | 216.00 ft |
| Comments | | | |

| | | | |
|--------------------|------------|--------------------|-----------|
| Date | 04/01/1937 | Casing Type | Steel |
| Start Depth | 178.00 ft | End Depth | 300.00 ft |
| Diameter | 10.00 in | Amount | 122.00 ft |
| Comments | | | |

Grout Construction Information

| | | | |
|--------------------|------------|------------------------|-----------|
| Date | 04/01/1937 | Grout Placement | Unknown |
| Grout Type | Cement | End Depth | 216.00 ft |
| Start Depth | 0.00 ft | | |
| Comments | | | |

Log Information

| | |
|--------------------|----------------------|
| Date | 09/01/1951 |
| Log Types | Strip log |
| Prepared By | Northup, Richard Cox |
| Comments | |

| | |
|--------------------|---------------|
| Date | 06/01/1951 |
| Log Types | Strip log |
| Prepared By | Carmody, R.A. |
| Comments | |

| | |
|--------------------|-----------------|
| Date | |
| Log Types | Drillers log |
| Prepared By | Lehigh, City Of |
| Comments | |

Stratigraphy Information

| | | | |
|----------------------------|---------------------|------------------|----------|
| System | Quaternary | | |
| Series | Pleistocene Series | | |
| Group | Wisconsinan Episode | | |
| Formation | Noah Creek | | |
| Member | | | |
| Submember | | | |
| Start Depth | 0.00 ft | End Depth | 27.00 ft |
| Contact Accuracy | | | |
| Penetration | | | |
| Primary Lithology | Sand And Gravel | Percent | 100 |
| Secondary Lithology | Unknown | Percent | 0 |
| Tertiary Lithology | Unknown | Percent | 0 |

Comments

System Pennsylvanian (Subsystem Of Carboniferous System)
Series
Group Cherokee
Formation
Member
Submember
Start Depth 27.00 ft **End Depth** 197.00 ft
Contact Accuracy
Penetration
Primary Lithology Sandstone **Percent** 0
Secondary Lithology Shale **Percent** 0
Tertiary Lithology **Percent**
Comments

System Mississippian (Subsystem Of Carboniferous System)
Series
Group Augusta
Formation
Member
Submember
Start Depth 197.00 ft **End Depth** 263.00 ft
Contact Accuracy
Penetration
Primary Lithology Limestone **Percent** 0
Secondary Lithology Dolomite **Percent** 0
Tertiary Lithology **Percent**
Comments

System Mississippian (Subsystem Of Carboniferous System)
Series
Group Sub-Augusta
Formation Gilmore City
Member
Submember
Start Depth 263.00 ft **End Depth** 330.00 ft
Contact Accuracy
Penetration
Primary Lithology Limestone **Percent** 0
Secondary Lithology Dolomite **Percent** 0
Tertiary Lithology **Percent**
Comments

System Mississippian (Subsystem Of Carboniferous System)
Series
Group Sub-Augusta
Formation Maynes Creek
Member

| | | | |
|----------------------------|---|------------------|-----------|
| Submember | | | |
| Start Depth | 330.00 ft | End Depth | 495.00 ft |
| Contact Accuracy | | | |
| Penetration | | | |
| Primary Lithology | Limestone | Percent | 0 |
| Secondary Lithology | Dolomite | Percent | 0 |
| Tertiary Lithology | Chert/Chalcedony | Percent | 0 |
| Comments | | | |
| <hr/> | | | |
| System | Mississippian (Subsystem Of Carboniferous System) | | |
| Series | | | |
| Group | North Hill | | |
| Formation | Prospect Hill | | |
| Member | | | |
| Submember | | | |
| Start Depth | 495.00 ft | End Depth | 510.00 ft |
| Contact Accuracy | | | |
| Penetration | | | |
| Primary Lithology | Siltstone | Percent | 100 |
| Secondary Lithology | | Percent | |
| Tertiary Lithology | | Percent | |
| Comments | | | |
| <hr/> | | | |
| System | Devonian | | |
| Series | | | |
| Group | Yellow Spring (New Albany) | | |
| Formation | Maple Mill | | |
| Member | | | |
| Submember | | | |
| Start Depth | 510.00 ft | End Depth | 520.00 ft |
| Contact Accuracy | | | |
| Penetration | | | |
| Primary Lithology | Shale | Percent | 100 |
| Secondary Lithology | | Percent | |
| Tertiary Lithology | | Percent | |
| Comments | | | |
| <hr/> | | | |
| System | Devonian | | |
| Series | | | |
| Group | Yellow Spring (New Albany) | | |
| Formation | Aplington | | |
| Member | | | |
| Submember | | | |
| Start Depth | 520.00 ft | End Depth | 532.00 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 Sheffield
Member
Submember
Start Depth 532.00 ft **End Depth** 540.00 ft
Contact Accuracy
Penetration
Primary Lithology Shale **Percent** 100
Secondary Lithology **Percent**
Tertiary Lithology **Percent**
Comments

System Devonian
Series
Group
Formation
Member
Submember
Start Depth 540.00 ft **End Depth** 890.00 ft
Contact Accuracy
Penetration
Primary Lithology Limestone **Percent** 0
Secondary Lithology Dolomite **Percent** 0
Tertiary Lithology **Percent**
Comments

System Ordovician
Series
Group
Formation Maquoketa
Member
Submember
Start Depth 890.00 ft **End Depth** 1005.00 ft
Contact Accuracy
Penetration
Primary Lithology Limestone **Percent** 0
Secondary Lithology Dolomite **Percent** 0
Tertiary Lithology Shale **Percent** 0
Comments

Water Production Information

Date 04/01/1937 **Start Time**
Aquifer Unknown

| | | | |
|----------------------------|----------|---------------------|------------------------|
| Static Water Level | -1.00 ft | Yield | 100 gallons per minute |
| Pumping Water Level | 0 ft | Yield Method | Unknown |
| Measurement | Unknown | Pump Test | No |
| Pump Method | Unknown | Duration | 0 mins |
| Comments | | | |

Chip Storage Information

| | | | |
|--------------------------|------------|--------------------------|---------|
| Date | | Bin | |
| Storage | WD2-2,3 | Number of Samples | 198 |
| Number of Boxes | 2 | Sample Gaps | 0-5 |
| Sample Intervals | 0 | Sample Bottom | 1005 ft |
| Sample Top | 5 ft | Washed Bottom | 0 ft |
| Washed Top | 0 ft | | |
| Duplicate Storage | WS: CE13-1 | | |
| Comments | | | |

<https://www.iihr.uiowa.edu/igs/geosam/well/489/general-information>