

**Table 1**  
**Town of Arlington**  
**Deep Well (1955)**

**Location:** NWSW sec. 28 T. 92 N. R. 7 W.

**Total Depth:** 1312 feet

**Elevation of land surface datum:** 1147'

**Contractor:** Hoeg & Ames

**Driller:** Erv. Fink

**Date drilled:** June 6 - August 25, 1955

**Hole size:** 10" 0' to 487'    8" from 487' to 867'    6" 867' to 1312'

**Casing data:** 487' of 10" casing 0-487'  
185' of 8" liner from 682 - 867'

**Water level:** Static water level was 358.2 ft. below top of casing,  
which was about 2 ft. above land surface datum.

**Test Pump:** Turbine (oil lubricated) powered by gas engine with belt  
drive

**Aquifer:** Prairie du Chien to upper St. Lawrence (Mainly Jordan  
Sandstone)

**Measurements:** Water level measurements (Table 2) made with an  
electric line. Discharge rate was determined by periodic  
measurements of flow into a large tank.

**Observers:** A. J. Fuelner and W. L. Steinhilber

Table 2  
Pumping Test at Arlington, Iowa  
August 26, 1955

Time (minutes)	Depth to water (ft.)	Drawdown (feet)	GPM	Remarks
	358.2			S. W. L.
1	366.7	8.5		
2	365.9	7.7		pump rate fluctuating
3	366.2	8.0		
4	370.9	12.7		
5	372.5	14.3		
6	373.3	15.1		
7	373.6	15.4		
8	373.5	15.3		
9	374.2	16.0		pump rate steady
10	374.3	16.1		
13	374.2	16.0		
16	374.9	16.7	175	
20	375.0	16.8		
25	375.2	17.0		52°F
30	375.5	17.3		pump rate dropping off
40	375.3	17.1		
42	375.4	17.2		
51	374.6	16.4		
60	376.5	18.3	133	
66	376.6	18.4		
75	376.9	18.7		pumping rate varying
90	377.0	18.8		between 132 and 143 g.p.m.
105	377.1	18.9		
120	377.0	18.8		
140	376.9	18.7	140	
165	376.7	18.5		52°F
180	376.5	18.3		
210	376.5	18.3	136	
240	377.2	19.0		
273	376.4	18.2	143	
300	377.0	18.8	132	52°F
330				shaft on pump broken

219 376.4

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Arlington, Iowa

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August 26, 1955

Time (minutes)	Depth to water (ft.)	Drawdown (feet)	GPM	Remarks
10	362.2			<del>early recovery</del>
11	361.8			early recovery
12	361.8			measurements
13	361.7			not possible
14	361.6			because water
15	361.6			from pump
17	361.4			column drained
19	361.2			into well.
21	361.1			
23	360.9			
25	360.8			
30	360.6			
35	360.3			
40	360.1			
45	359.9			
50	359.7			