RESULTS OF PRODUCTION TEST

WELLSBURG TOWN WELL

(1949)

July 15, 1949

NAME: Wellsburg Town Well (1949)

LOCATION: NW¼ NE¼ SE¼ sec. 15, T. 88 N., R. 18 W., Grundy County.

CONTRACTOR: Hoeg and Ames, Lincoln, Iowa.

DRILLER: Ervol Fink

DATE DRILLED: July 11-14, 1949.

TOTAL DEPTH: 156 feet.

CASING AND HOLE DATA: 129'3" of 12¼" I.D. casing from one foot above land surface to 128'3" below land surface.

CHIEF AQUIFER: Mississippian limestone 125' to 150'.

TEST PUMP: Turbine, set at 145'. 3½" column, 8" bowls, 10 stage. Belt powered from tractor.

WATER-LEVEL MEASUREMENTS: Depth to water measurements were made with an electric measuring line. Measuring point was top of 12¼" casing which was one foot above land surface.

DISCHARGE MEASUREMENTS: Discharge rate obtained by timing flow of water into 55 gallon drum.

TEMPERATURE MEASUREMENTS: The temperature of the water was measured at the end of 16 feet of 4-inch discharge pipe.

REMARKS: Discharge of water given in g.p.m. is accurate only to about 5 gallons plus or minus. This error is due to unevenness of barrel footing and error of judgment in timing flow.

Observations and measurements made by J. B. Cooper, Geological Survey, Iowa City, Iowa.

Production Test - Welleburg, Iowa — July 15, 1949

Time	Depth to water (feet)	Seconds to fill Barrel	G.P.M.	Temp. °F.	Remarks
July 15					
1:27 pm	79.7				
1:28					Pump on.
1:29	82.4				
1:30	83.0				Water very muddy.
1:31	83.6				
1:32	84.0				
1:33	84.3				
1:34	84.7				
1:35	84.9				
1:36	85.1				
1:37	85.4				
1:38	85.5				
1:39	85.7				
1:40	85.9				
1:42	86.3	30	110		
1:44	86.5				
1:46	86.8				
1:48	87.0				Water fairly dirty.
1:50	87.2				
1:52	87.5				
1:54	87.6				
1:57	87.9				
2:00	88.2	40	82	50	
2:05	88.6				
2:10	89.0				
2:17	89.5	40	82		
2:25	90.1				
2:30	90.4				Water almost clear.
2:35	90.8				
2:40	91.0				
2:45	91.3				
2:50	91.6				
3:00	92.1				
3:10	92.6	40	82		
3:20	93.1				
3:30	93.5				
4:02	94.8	40	82		
4:15	95.3				
4:30	95.8				
4:45	96.3				
5:00	96.8				Water fairly clear - a few rock particles.
5:15	97.2	40	82		Water sample.
5:30	97.6				
5:45	98.0				
5:47					Speeded pump.
5:50	98.8	35	94		

Time	Depth to water (feet)	Seconds to fill Barrel	G.P.M.	Temp. °F.	Remarks
July 15					
5:51 pm					Pump off.
5:55	94.4				Recovery measurement.
5:58					Pump on.
5:59					Water very dirty.
6:00					Water cloudy.
6:03					Pump off.
6:10	93.1				Recovery measurements.
6:20	92.1				
6:25	91.7				
6:26					Pump on.
6:26+					Water muddy gray.
6:28					Water cloudy gray.
6:31	99.3	30	110		
7:41	106.5	28	114		
7:59		26	127		Water fairly clear.
8:00	107.5				
8:15	108.3				
8:22	108.6				
8:25					Pump off.
8:26	102.5				Recovery measurements.
8:28	101.5				
8:30	100.8				
8:32	100.4				
8:34	100.0				
8:36	99.5				
8:38	99.2				
8:40	98.9				
8:42	98.6				
8:44	98.3				
8:46	98.1				
8:48	97.9				
8:50	97.7				
8:55	97.2				
9:00	96.9				
9:05	96.5				
9:12	96.1				

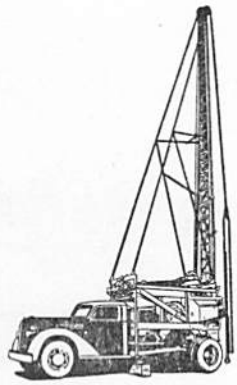
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LINCOLN, IOWA



WELLSBURG PUMPING TEST

TIME	WATER LEVEL		GAL. PER MIN.	
8:00	103			
8:05	165		45	Water clear
8:15	186		50	
8:20	186			Water clear
8:30	189		50	
8:40	190			Water clear
8:55	191			
9:05	192			
9:15	192			
9:30	193			
9:45	193			Water clear
10:00	193			
10:15	193		50	
10:30	193			
11:00	193			
11:30	193			
12:00	193			
12:40	194			
1:15	194	Adjusted Carburater		
1:30	194			
2:00	194			

210 feet of pump plus tail pipe. ~~40 gal. per min.~~