

**TEST RUN TO DETERMINE AMOUNT OF WATER AVAILABLE
FROM NEW DEEP WELL NO.7, DUBUQUE, IA. APR.26th to 27th,1939**

**USED: DEEP WELL PUMP- 1750 R.P.M.with 150H.P.Motor.
Flow through 10" pipe with 8 1/2" Orifice.**

TIME	DRAWDOWN				ORIFICE HEAD IN INCHES	GALS. PER MINUTE	REMARKS
	LBS. ON GAUGE	F E E T BELOW STATIC	BELOW A DISCHARGE				
APRIL							
26th							
27th							
9:20 A.M.	70	Not Operating					No. 6 Not Operating
10:00	70	0	21.3'				57' water- No.6
10:01	38	85.47	106.77	32"	2438		water very black
10:05	30	92.40	113.70	31 1/2"	2415		
10:15	29	94.71	116.01	31"	2392		
10:30	25	103.95	125.25	30 1/2"	2368		
10:45	24	106.46	127.76	30 3/4"	2368		102' water No. 6
11:00	23	108.57	129.87	30 3/4"	2368		
11:15	22	110.88	132.18	30 3/4"	2368		
11:30	22	110.88	132.18	30 3/4"	2356		
11:45	22	110.88	132.18	30 3/4"	2356		
12:00	22	110.88	132.18	30 3/4"	2356		
12:15	22	110.88	132.18	30 3/4"	2356		
12:30	21	113.19	134.49	30 3/4"	2356		
12:45	21	113.19	134.49	30"	2345		
1:00	21	113.19	134.49	30"	2345		water clearing up
1:15	21	113.19	134.49	30"	2345		105' water No. 6
1:30	20.5	114.35	134.49	30"	2345		
1:45	20.5	114.35	134.49	30"	2345		
2:00	20.5	114.35	134.49	30"	2345		
2:15	20.5	114.35	134.49	30"	2345		
2:30	20.	115.50	136.80	30"	2345		
2:45	20.	115.50	136.80	30"	2345		108' water No.6
3:00	20.	115.50	136.80	30"	2345		
3:15	20.	115.50	136.80	30"	2345		
3:30	20.	115.50	136.80	30"	2345		
3:45	20.	115.50	136.80	30 1/2"	2356		opened valve
4:00	19.5	115.60	136.80	30 3/8"	2362		
4:15	19.5	115.60	136.80	30 1/2"	2368		
4:30	19.5	115.60	136.80	30 3/4"	2368		
4:45	19.5	115.60	136.80	30 3/4"	2368		110' water No.6
5:00	19.5	115.66	136.80	30 3/4"	2368		
5:15	19.5	115.60	136.80	30 1/2"	2368		
5:30	19.0	117.81	139.11	30 3/4"	2356		
5:45	19.0	118.81	139.11	30 3/4"	2368		
6:00	19.0	117.81	139.11	30 3/4"	2368		No.6 Well started
6:15	19.0	117.81	139.11	30 3/4"	2356		
6:30	19.0	117.81	139.11	30 3/4"	2356		
6:45	19.0	117.81	139.11	30 3/4"	2356		
7:00	19.0	117.81	139.11	30 3/4"	2356		
7:15	19.0	117.81	139.11	30 3/4"	2356		
7:30	19.0	117.81	139.11	30 3/4"	2356		
7:45	18.0	120.4	141.7	30"	2345		
8:00	18.0	120.4	141.7	29 1/2"	2333		
8:15	18.0	120.4	141.7	29 1/2"	2333		
8:30	18.0	120.4	141.7	29 1/2"	2333		
8:45	18.0	120.4	141.7	29 1/2"	2333		9' water No.6

TIME	DRAWDOWN		F E E T		ORIFICE HEAD IN INCHES	GALLONS PER MINUTE	REMARKS
	POUNDS ON GAUGE	BELOW STATIC	BELOW DISCHARGE				
APRIL 26th							
27th							
9:00	18.0	120.4	141.7	29 1/4"	2333		
9:15	18.0	120.4	141.7	29 1/4"	2333		
9:30	18.0	120.4	141.7	29 1/4"	2333		
9:45	18.0	120.4	141.7	30"	2345		
10:00	17.5	121.37	142.67	30"	2345		
10:30	17.5	121.37	142.67	30"	2345		4 1/2' water No.6
10:45	17.5	121.37	142.67	30"	2345		
11:00	17.5	121.37	142.67	30"	2345		
11:15	17.5	121.37	142.67	30"	2345		
11:30	17.5	121.37	142.67	30"	2345		
11:45	17.0	122.34	143.64	30"	2345		
12:00	17.0	122.34	143.65	30"	2345		
12:15	17.0	122.34	143.64	30"	2345		
12:30	17.0	122.34	143.64	30"	2345		
12:45	17.0	122.43	143.65	30"	2345		
1:00	16.5	123.58	144.88	30"	2345		
1:15	16.5	123.58	144.88	29 3/4"	2333		
1:30	16.5	123.58	144.88	29 3/4"	2333		
1:45	16.5	123.58	144.88	29 3/4"	2333		No.6
2:00	16.5	123.58	144.88	29 3/4"	2333		No water above pump
2:15	16.0	124.74	146.04	29 3/4"	2333		
2:30	16.0	124.74	146.04	29 3/4"	2333		
2:45	16.0	124.74	146.04	29 3/4"	2333		
3:00	16.0	124.74	146.04	29 3/4"	2333		
3:15	16.0	124.74	146.04	29 3/4"	2333		
3:30	16.0	124.74	146.04	29 3/4"	2333		
3:45	16.0	124.74	146.04	29 3/4"	2333		
4:00	16.0	124.74	146.04	29 3/4"	2333		
4:15	16.0	124.74	146.04	29 3/4"	2333		
4:30	16.0	124.74	146.04	29 3/4"	2333		
4:45	16.0	124.74	146.04	29 3/4"	2333		
5:00	16.0	124.74	146.04	29 3/4"	2333		
5:15	16.0	124.74	146.04	29 3/4"	2333		
5:30	16.0	124.74	146.04	29 3/4"	2333		
5:45	16.0	124.74	146.04	29 3/4"	2333		
6:00	16.0	124.74	146.04	30"	2345		No. 6 shut off
6:15	16.0	124.74	146.04	30"	2345		
6:30	16.0	124.74	146.04	30"	2345		
6:45	16.0	124.74	146.04	30 1/4"	2356		92' water No.6
7:00	16.0	124.74	146.04	30 1/4"	2356		
7:15	16.0	124.74	146.04	30 3/8"	2362		
7:30	16.0	124.74	146.04	30 1/2"	2368		
7:45	16.0	124.74	146.04	30 1/2"	2368		
8:00	16.0	124.74	146.04	30 1/2"	2368		100' water No 6
8:15	16.0	124.74	146.04	30 1/2"	2368		
8:30	16.0	124.74	146.04	30 1/2"	2368		
8:45	16.0	124.74	146.04	30 1/2"	2368		
9:00	16.4	123.58	144.88	30 1/2"	2368		
9:15	16.5	123.58	144.88	30 1/2"	2368		102' water No.6
9:30	16.5	123.58	144.88	30 1/2"	2368		
9:45	16.5	123.58	144.88	30 1/2"	2380		
10:00	16.5	123.58	144.88	30 1/2"	2380		pump stopped

RECOVERY - PUMP REVERSED WHILE CLOSING VALVE.

TIME	POUNDS	FEET BELOW STATIC	FEET BELOW h DISCHARGE
10:01	49	48.51	69.81
10:03	52	41.53	62.88
10:05	54	36.96	58.26
10:10	57	30.03	51.33
10:15	59	25.41	46.71
10:20	60	23.10	44.40
10:25	61	20.72	42.09
10:30	62	18.48	39.78
10:35	62+	18.50	39.80
10:40	63-	16.80	37.50
10:45	63	16.14	37.44
10:50	64-	13.83	35.13
10:55	64	13.83	35.13
11:00	64	13.83	35.13
11:05	64	13.83	35.13
11:10	64	13.83	35.13
11:15	65	11.52	34.62
11:20	65	11.52	34.62
11:30	65.5	10.37	31.67
11:35	65.5	10.37	31.67
11:40	66	9.21	30.51
11:45	66	9.21	30.51
11:50	66	9.21	30.51
11:55	66	9.21	30.51
12:00	66	9.21	30.51
12:05	66.5	8.06	29.36
12:15	67.0	6.90	28.20
12:30	67.0	6.90	28.20
12:45	67.5	5.75	27.05
1:00	68	4.62	25.92
1:15	68	4.62	25.92
1:30	68	4.62	25.92
1:45	68.5	3.46	24.76
2:00	68.5	3.46	24.76

The duration of the test was for a continuous period of 24 hrs.

The number of gallons pumped per minute was:

2438 maximum

2333 minimum

2351 average

The maximum drawdown was 124.74 feet while pumping 2368 gallons per minute.

The average drawdown during the test was 118.38 feet. The average number of gallons per minute for each foot of drawdown was 19.9 gallons. The well was chlorinated by the contractor on May 5, 1939.