

1988 135th Street
Fairmont, MN 56031



Ph. (507) 235-6779
Fax. (507) 235-6722

WELL #1 (NORTH WELL)

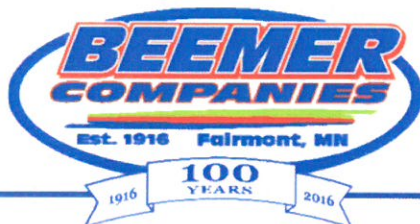
STEP-DRAWDOWN TEST

Customer:	Wright County	Date:	8/10/2020
Engineer:	ISG	Static:	66
Unique Well No:	North	Design Flow Rate:	60gpm

Design Flow %	GPM	Pumping Level	Start Time	Stop Time
50	30 gpm	121	9:30 AM	10:00 AM

Pumping		
Interval (min)	Time	Pumping Level
1	9:31	88
2	9:32	100
3	9:33	102
5	9:35	105
7	9:37	112
10	9:40	116
20	9:50	119
30	10:00	121
Recovery		
Interval (min)	Time	Pumping Level
1	10:01	109
2	10:02	96
3	10:03	87
5	10:05	79
7	10:07	76
10	10:10	74
20	10:20	71
30	10:30	69

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WELL #1 (NORTH WELL)

STEP-DRAWDOWN TEST

Customer:	Wright County	Date:	8/10/2020
Engineer:	ISG	Static:	69
Unique Well No:	North	Design Flow Rate:	60gpm

Design Flow %	GPM	Pumping Level	Start Time	Stop Time
75	45 gpm	136	10:30 AM	11:00 AM

Pumping		
Interval (min)	Time	Pumping Level
1	10:31	86
2	10:32	103
3	10:33	110
5	10:35	119
7	10:37	124
10	10:40	128
20	10:50	133
30	11:00	136
Recovery		
Interval (min)	Time	Pumping Level
1	11:01	120
2	11:02	103
3	11:03	95
5	11:05	81
7	11:07	80
10	11:10	77
20	11:20	73
30	11:30	72

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WELL #1 (NORTH WELL)

STEP-DRAWDOWN TEST

Customer:	Wright County	Date:	8/10/2020
Engineer:	ISG	Static:	72
Unique Well No:	North	Design Flow Rate:	60gpm

Design Flow %	GPM	Pumping Level	Start Time	Stop Time
100	60 gpm	154	11:30 AM	12:00 PM

Pumping		
Interval (min)	Time	Pumping Level
1	11:31	94
2	11:32	105
3	11:33	115
5	11:35	128
7	11:37	137
10	11:40	143
20	11:50	151
30	12:00	154
Recovery		
Interval (min)	Time	Pumping Level
1	12:01	140
2	12:02	122
3	12:03	117
5	12:05	98
7	12:07	88
10	12:10	83
20	12:20	76
30	12:30	74

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Pumping Constant Rate Test

WELL #1 (NORTH WELL)

Customer:	Wright County	Static:	74ft	Date:	8/10/2020
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Pumping Constant Rate Test @ 60 GPM

Start time:	12:30 PM	Start Date:	8/10/2020
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	Time	Pumping Level		Time	Pumping Level
1 minute	12:31 PM	109	30	1:00 PM	156
2 minutes	12:32 PM	115	35	1:05 PM	157
3 minutes	12:33 PM	123	40	1:10 PM	158
4 minutes	12:34 PM	134	45	1:15 PM	159
5 minutes	12:35 PM	138	50	1:20 PM	160
6 minutes	12:36 PM	140	55	1:25 PM	161
7 minutes	12:37 PM	142	60	1:30 PM	162
8 minutes	12:38 PM	143	70	1:40 PM	163
9 minutes	12:39 PM	145	80	1:50 PM	164
10 minutes	12:40 PM	146	90	2:00 PM	167
12 minutes	12:42 PM	149	100	2:10 PM	170
14 minutes	12:44 PM	150	120	2:30 PM	171
16 minutes	12:46 PM	151	140	2:50 PM	173
18 minutes	12:48 PM	152	160	3:10 PM	173.5
20 minutes	12:50 PM	153	180	3:30 PM	174
25 minutes	12:55 PM	155	200	3:50 PM	175

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WELL #1 (NORTH WELL)

	Time	Pumping Level		Time	Pumping Level
220	4:10 PM	176	840	2:30 AM	185.5
240	4:30 PM	176.3	960	4:30 AM	187
300	5:30 PM	177.5	1080	6:30 AM	187.5
360	6:30 PM	179	1200	8:30 AM	188.5
420	7:30 PM	180	1320	10:30 AM	188.5
480	8:30 PM	181	1440	12:30 PM	189
600	10:30 PM	182	Final		
720	12:30 AM	184			

Stop time: 12:30 PM

Stop Date: 8/11/2020



WELL #1 (NORTH WELL)

$$= 60 / (189-74)$$

	Time	Pumping Level		Time	Pumping Level
220	4:10 PM	176	840	2:30 PM	185.5
240	4:30 PM	176.3	960	4:30 PM	187
300	5:30 PM	177.5	1080	6:30 PM	187.5
360	6:30 PM	179	1200	8:30 PM	188.5
420	7:30 PM	180	1320	10:30 PM	188.5
480	8:30 PM	181	1440	12:30 AM	189
600	10:30 PM	182	Final		
720	12:30 PM	184			

Stop time:	12:30 PM	Stop Date:	8/11/2020
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Specific Capacity = 0.52 gpm/ft 0.52 gpm/ft

Static Water Level = 66 ft
PWL @ 60 gpm = 181 ft
PWL @ 50 gpm = 161 ft

74 ft
189 ft
170 ft

NOTE: This was after
step-drawdown tests

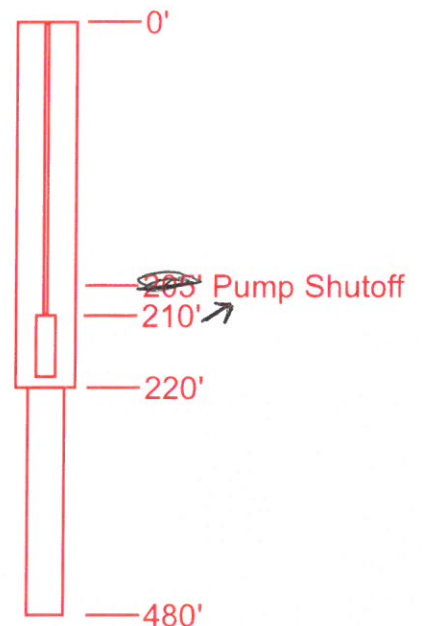
$$= 60 / (189-66)$$

Specific Capacity = 0.49 gpm/ft 0.49 gpm/ft

Static Water Level = 66 ft
PWL @ 60 gpm = 189 ft
PWL @ 50 gpm = 169 ft

74 ft
197 ft
177 ft

WELL PROFILE



Beemer to confirm

Transducer hanging @
215'

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Recovery

WELL #1 (NORTH WELL)

Customer:	Wright County	Static:	189ft	Date:	8/11/2020
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Pumping Constant Rate Test @ 60 GPM

Start time:	12:30 PM	Start Date:	8/11/2020
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	Time	Pumping Level		Time	Pumping Level
1 minute	12:31 PM	162	30	1:00 PM	99
2 minutes	12:32 PM	144	35	1:05 PM	97
3 minutes	12:33 PM	133	40	1:10 PM	96.5
4 minutes	12:34 PM	125	45	1:15 PM	95.5
5 minutes	12:35 PM	120	50	1:20 PM	94.5
6 minutes	12:36 PM	116	55	1:25 PM	94
7 minutes	12:37 PM	113	60	1:30 PM	93.5
8 minutes	12:38 PM	111	70	1:40 PM	92.5
9 minutes	12:39 PM	109	80	1:50 PM	91.5
10 minutes	12:40 PM	107	90	2:00 PM	90.5
12 minutes	12:42 PM	105	100	2:10 PM	90
14 minutes	12:44 PM	103	120	2:30 PM	88
16 minutes	12:46 PM	102.5	140	2:50 PM	
18 minutes	12:48 PM	102	160	3:10 PM	
20 minutes	12:50 PM	101.5	180	3:30 PM	
25 minutes	12:55 PM	100	200	3:50 PM	

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	Time	Pumping Level		Time	Pumping Level
220			840		
240			960		
300			1080		
360			1200		
420			1320		
480			1440		
600			Final		
720					

Stop time: 2:30 PM

Stop Date: 8/11/2020