Layne-Western Company, Inc.
PROFESSIONAL SERVICES FOR WATER SYSTEMS
705 SO. DUFF AVE. AMES, IOWA 50010
Phone 515/232-3563

Job City of Fayette **Well no.** 3-89 Date Tested 08/09/90

Location Wadena Road Tested By Heldt/Butler

Dia. of Well 8" Driver 8V-71 Detroit

Depth of Well 1200' Pump Used: Column and Shaft 5 x 2 x 1 3/16

Length of Airline 460' Bowls 20 stage 8TH

Non-Pumping Level 235' Manufacturer Layne & Bowler

Orifice Size 6x5 Serial No.

Time	Pizometer Reading (in.)	G. P. M.	Air Gauge Reading (ft.)	Pumping Level	Drawdown	Disch. Pressure		Total Pumping Head	Remarks
						Lbs.	Feet		
12:50 pm			225	SWL 235					
1:00 pm			225						started test
1:01	5.0	278	180	280	45	5			cloudy
1:02	5.0	278	150	310	75	5			crystal clear
1:03	5.0	278	140	320	85	5			
1:04	5.0	278	135	325	90	5			
1:05	5.0	278	130	330	95	5			
1:20	5.0	278	125	335	100	5			
1:35	5.0	278	125	335	100	5			
1:50	5.0	278	125	335	100	5			
2:05	5.0	278	120	340	105	5			
2:20	5.0	278	120	340	105	5			
2:35	5.0	278	115	345	110	5			
2:40	5.0	278	115	345	110	5			
2:55	5.0	278	115	345	110	5			
3:10	10.5	403				12			increased flow
3:15	10.5	403	65	395	155	12			
3:40	10.5	403	65	395	155	12			
4:00 pm	10.5	403	65	395	155	12			
4:30	10.0	394	65	395	155	12			S.C. = 2.54
5:00 pm	10.0	394	65	395	155	12			
5:30	10.5	403	70	390	150	12			
6:00 pm	10.0	394	65	395	155	5			

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Job City of Fayette **Well no.** 3-89 Date Tested 08/13/90

Location Wadena Road Tested By Heldt/Butler

Dia. of Well 8" Driver 8V-71 Detroit

Depth of Well 1200' Pump Used: Column and Shaft 5 x 2 x 1 3/16

Length of Airline 460' Bowls 20 stage 8TH

Non-Pumping Level 235' Manufacturer Layne & Bowler

Orifice Size 6x5 Serial No.

Time	Pizometer Reading (in.)	G. P. M.	Air Gauge Reading (ft.)	Pumping Level	Drawdown	Disch. Pressure		Total Pumping Head	Remarks
						Lbs.	Feet		
2:15 pm			225	235					static level
2:30	5.5	292	180	280	45	7			started test
2:31	5.5	292	150	310	75	7			
2:32	5.5	292	140	320	85	7			crystal clear
2:34	5.5	292	130	330	95	7			
2:36	5.5	292	130	330	95	7			
2:37	5.5	292	125	335	100	7			
2:38	5.5	292	125	335	100	7			
2:39	5.5	292	125	335	100	7			
2:40	5.5	292	120	340	105	7			
2:55	5.5	292	115	345	110	7			
3:10	5.5	292	112	348	113	7			
3:25	6.0	306	110	350	115	7			
3:40	6.0	306	110	350	115	7			
3:55	6.0	306	110	350	115	7			
4:10	6.0	306	110	350	115	7			S.C. = 2.67
4:25	6.0	305	109	351	116	7			
4:40	6.0	305	109	351	116	7			
5:00 pm	6.0	306	105	355	120	7			
5:30	11.0	413	70	390	155	7			increased rate
6:00	11.0	413	65	395	160	7			
6:30	11.0	413	59	401	166	7			
7:00 pm	11.0	413	59	401	166	7			
7:30	11.0	413	59	401	166	7			
8:00 pm	10.5	403	59	401	166	7			

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Job City of Fayette Well no. 3-89 Date Tested 08/13/90

Location Wadena Road Tested By Heldt/Butler

Dia. of Well 8" Driver 8V-71 Detroit

Depth of Well 1200' Pump Used: Column and Shaft 5 x 2 x 1 3/16

Length of Airline 460' Bowls 20 stage 8TH

Non-Pumping Level 235' Manufacturer Layne & Bowler

Orifice Size 6x5 Serial No.

Time	Pizometer Reading (in.)	G. P. M.	Air Gauge Reading (ft.)	Pumping Level	Drawdown	Disch. Pressure		Total Pumping Head	Remarks
						Lbs.	Feet		
8:30	10.5	403	58	402	107				
9:00	10.5	403	58	402	167				
9:30	10.5	403	58	402	167				S.C. = 2.41
10:00	10.5	403	58	402	167				
10:30	10.0	394	58	402	167				

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Job: City of Fayette | Well no.: 3-89 | Date Tested: 08/16/90

Location: Wadena Road | Tested By: Heldt/Butler

Dia. of Well: 8" | Driver: 8V-71 Detroit

Depth of Well: 1200' | Pump Used: | Column and Shaft: 5 x 2 x 1 3/16

Length of Airline: 460 | Bowls: 20 stage 8TH

Non-Pumping Level: 235' | Manufacturer: Layne & Bowler

Orifice Size: 6x5 | Serial No.:

Time	Pizometer Reading (in.)	G. P. M.	Air Gauge Reading (ft.)	Pumping Level	Drawdown	Disch. Pressure		Total Pumping Head	Remarks
						Lbs.	Feet		
9:00 am			225	235	static				
9:10	5.0	278	200	260	25				started test
9:11	5.0	278	190	270	35				
9:12	5.0	278	180	280	45				
9:13	5.0	278	160	300	65				
9:14	5.0	278	150	310	75				
9:15	5.0	278	137	323	88				
9:16	5.0	278	134	326	91				crystal clear
9:17	5.0	278	134	326	91				
9:18	5.0	278	134	326	91				
9:19	5.0	278	134	326	91				
9:20	5.0	278	134	326	91				
9:35	5.0	278	134	326	91				
9:50	5.0	278	134	326	91				
10:05	5.0	278	132	328	93				S.C. = 2.99

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Job: City of Fayette | Well no.: 3-89 | Date Tested: 08/16/90
Location: Wadena Road | Tested By: Heldt/Butler
Dia. of Well: 8" | Driver: 8V-71 Detroit
Depth of Well: 1200' | Pump Used: | Column and Shaft: 5 x 2 x 1 3/16
Length of Airline: 460' | Bowls: 20 stage 8TH
Non-Pumping Level: 235' | Manufacturer: Layne & Bowler
Orifice Size: 6x5 | Serial No.:

Time	Pizometer Reading (in.)	G. P. M.	Air Gauge Reading (ft.)	Pumping Level	Drawdown	Disch. Pressure Lbs.	Disch. Pressure Feet	Total Pumping Head	Remarks
10:30			225	235	static				started test
10:32			120	340	105				
10:33	6.5	317	118	342	107				
10:34	6.5	317	116	344	109				
10:35	6.5	317	117	343	108				
10:40	6.5	317	115	345	110				
10:45	6.5	317	115	345	110				
10:50	6.5	317	115	345	110				
10:55	6.5	317	114	346	111				
11:00 am	6.5	317	112	348	113				
11:15	6.5	317	110	350	115				
11:30	6.5	317	110	350	115				S.C. = 2.75

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Job City of Fayette **Well no.** 3-89 Date Tested 08/22/90

Location Wadena Road Tested By Butler/Ball

Dia. of Well 8" Driver 3306 Cat

Depth of Well 1200' Pump Used: Column and Shaft 5 x 2 x 1 3/16

Length of Airline 460' Bowls 8TH

Non-Pumping Level 235' Manufacturer Layne & Bowler

Orifice Size 6x4 Serial No.

Time	Pizometer Reading (in.)	G. P. M.	Air Gauge Reading (ft.)	Pumping Level	Drawdown	Disch. Pressure		Total Pumping Head	Remarks
						Lbs.	Feet		
1:45	16.0	261	158	302	67				
1:46	16.0	261	150	310	75				
1:47	16.0	261	150	310	75				
1:48	16.0	261	150	310	75				
1:49	16,9	261	145	315	80				
1:50	16.0	261	145	315	80				
2:00	16.0	261	140	320	85				
2:10	16.0	261	140	320	85				
2:20	16.0	261	139	321	86				
2:30	16.0	261	139	321	86				
2:40	16.0	261	139	321	86				
2:50	16.0	261	139	321	86				
3:00	16.0	261	139	321	86				
3:15	16.0	261	139	321	86				S.C. = 3.03
3:30	16.0	261	135	325	90				
3:45	38.5	404	95	365	130				
4:00	38.5	404	85	375	140				
4:30	38.5	404	80	380	145				
5:00 pm	38.5	404	80	380	145				
5:30	38.5	404	80	380	145				
6:00	38.5	404	80	380	145				
6:30	38.5	404	80	380	145				
7:00 pm	38.5	404	80	380	145				
7:30	38.0	402	80	380	145				
8:00	38.0	402	80	380	145				
8:30	38.0	402	80	380	145				
9:00	38.5	404	80	380	145				

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Job City of Fayette Well no. 3-89 Date Tested 08/22/90
Location Wadena Road Tested By Butler/Ball
Dia. of Well 8" Driver 3306 Cat
Depth of Well 1200' Pump Used: Column and Shaft 5 x 2 x 1 3/16
Length of Airline 460' Bowls 8TH 20 stage
Non-Pumping Level 235 Manufacturer Layne & Bowler
Orifice Size 6x4 Serial No.

Time	Pizometer Reading (in.)	G. P. M.	Air Gauge Reading (ft.)	Pumping Level	Drawdown	Disch. Pressure		Total Pumping Head	Remarks
						Lbs.	Feet		
9:30	38.0	402	80	380	145				
10:00 pm	38.0	402	80	380	145				S.C. = 2.77
10:30	35.0	385	75	385	150				
11:00	35.0	385	75	385	150				
11:30	35.0	385	75	385	150				
12:00 am	35.0	385	78	382	147				
12:30	35.0	385	77	383	148				
1:00	35.0	385	77	383	148				
1:30	35.0	38.5	75	385	150				
2:00 am	35.0	385	75	385	150				
2:30	35.0	385	75	385	150				
3:00 am	35.0	385	75	385	150				
3:30	35.0	385	75	385	150				
4:00	35.0	385	75	385	150				
4:30	35.0	385	75	385	150				
5:00 am	35.0	385	75	385	150				
5:30	35.0	385	75	385	150				
6:00 am	35.0	385	75	385	150				
6:30	35.0	385	75	385	150				
7:00 am	35.0	385	75	385	150				
7:30	35.0	385	75	385	150				
8:00 am	35.0	385	75	385	150				
8:30	35.0	385	75	385	150				
9:00	35.0	385	75	385	150				
9:30	35.0	385	75	385	150				
10:00 am	35.0	385	75	385	150				
10:30	35.0	385	75	380	150				

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Job City of Fayette **Well no.** 3-89 Date Tested 08/23/90

Location Wadena Road Tested By Butler/Ball

Dia. of Well 8" Driver 3306 Cat

Depth of Well 1200' Pump Used: Column and Shaft 5 x 2 x 1 3/16

Length of Airline 460' Bowls 8TH 20 stage

Non-Pumping Level 235 Manufacturer Layne & Bowler

Orifice Size 6x4 Serial No.

Time	Pizometer Reading (in.)	G. P. M.	Air Gauge Reading (ft.)	Pumping Level	Drawdown	Disch. Pressure		Total Pumping Head	Remarks
						Lbs.	Feet		
11:00 am	35.0	385	75	385	150				
11:30	35.0	385	75	385	150				S.C. = 2.57
11:35	43.5	430	turned wide open						
11:40	43.5	430	58	402	167				
11:50	43.5	430	55	405	170				
12:00 pm	43.5	430	55	405	170				
12:15	43.5	430	55	405	170				
12:30	43.5	430	55	405	170				S.C. = 2.53
		RECOVERY							
12:45			140	320	85				
1:00			160	300	65				
1:15			170	290	55				
1:30			190	270	35				
1:45			200	260	25				
2:00			210	250	15				
2:15			210	250	15				
2:30			210	250	15				
2:45			210	250	15				