



Layne-Western Company, Inc.

WATER SUPPLY CONTRACTORS

705 SO. DUFF AVE.

AMES, IOWA 50010

Phone 515 232-3563

Name of Job City Water Department Date August 18, 1987City Clear Lake State IowaWell No: 2 Drillers: Mark Evans Wayne Lafontaine

Well Location: _____ ft. (____) and _____ ft. (____) of the _____ corner of

the _____ 1/4 of Section _____, Twp. _____ (____), Range _____ (____) County _____

Otherwise located as _____

Work Began: April 17, 1987 Work Completed: August 17, 1987

Casing Record:

Amount	Dia.	Wt. or Thickness	Material
<u>104'</u>	<u>30"</u>	<u>.50</u>	<u>steel with welded joints from 0 to 104</u>
<u>202'</u>	<u>24"</u>	<u>.50</u>	<u>steel with welded joints from +2 to -200</u>
_____	_____	_____	_____ with _____ joints from _____ to _____
_____	_____	_____	_____ with _____ joints from _____ to _____

Hole Record:

<u>36"</u>	inch from <u>0</u>	to <u>104'</u>
<u>28"</u>	inch from <u>104'</u>	to <u>200'</u>
<u>23"</u>	inch from <u>200'</u>	to <u>580'</u>
_____	inch from _____	to _____
_____	inch from _____	to _____ bottom of hole

Cementing Record: From 0 to 200 feet filling between bore hole to 30" and between 30" and 24"Well Test Data: Static Level 67'; pumping level 201 after 22 hours pumping at 1500 g.p.m.Length of test 24 hrs. See Well Test Data Sheet Dated August 14, 1987

Remarks: _____

SEE OTHER SIDE

[illegible]



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#28612

28690

Job..... City of Clear Lake Well no. 2 Date Tested..... August 14, 1987
Location..... 4th Avenue Tested By..... Wade Stockton
Dia. of Well..... 24" Driver..... 871 Detroit Diesel
Depth of Well..... 580' Pump Used: Column and Shaft..... 8 X 2 1/2 X 1 1/2
Length of Airline..... M-scope readings taken from 1.4' above Bowls..... 12 THC 6 stage 6'7" long
Non-Pumping Level..... 67' Manufacturer..... Wellline
Orifice Size..... 10 X 8 Serial No..... T81319

Time	Pizometer Reading (in.)	G. P. M.	Air Gauge Reading (feet)	Pumping Level	Drawdown	Disch. Pressure		Total Pumping Head	Remarks
						Lbs.	Feet		
8:00 a.m.	26	1536		67	0				
8:05	26	1536		136	69				
8:07	26	1536		138	71				
8:10	26	1536		149	82				
8:15	26	1536		156	89				
8:25	26	1536		159	92				
8:30	26	1536		161	94				
8:35	26	1536		162	95				
8:40	26	1536		163	96				
8:45	26	1536		164	97				
8:50	26	1536		165	98				
8:55	26	1536		165	98				
9:00	26	1536		166	99				
9:15	26	1536		168	101				
9:30	26	1536		171	104				
9:45	26	1536		174	107				
10:00	26	1536		178	111				
10:15	26	1536		181	114				
11:00	26	1536		183	116				
12:00 noon	26	1536		185	118				
1:00 p.m.	26	1536		185	118				
2:00	26	1536		185	118				
3:00	26	1536		186	119				
4:00	26	1536		187	120				
5:00	26	1536		189	122				

~~# 28612~~

28690

AMES, IOWA 50010

Phone 515 232-3563

Orifice Size..... Serial No.....

Time	Pizometer Reading (in.)	G. P. M.	Air Gauge Reading (feet)	Pumping Level	Drawdown	Disch. Pressure		Total Pumping Head	Remarks
						Lbs.	Feet		
6:00 p.m.	26	1536		189	122				
7:00	26	1536		190	123				
8:00	26	1536		192	125				
9:00	25.5	1522		194	127				
10:00	26	1536		195	128				
11:00	26	1536		197	130				
12:00 midnight 8/15/87	26	1536		199	132				
1:00 a.m.	26	1536		200	133				
2:00	26	1536		201	134				
3:00	26	1536		201	134				
4:00	26	1536		201	134				
5:00	26	1536		201	134				
6:00	26	1536		201	134				
6:07	11.5	1022		170	103				
6:12	13	1086		169	102				
6:15	11.5	1022		164	97				
6:20	11.5	1022		162	95				
6:25	11.5	1022		160	93				
6:30	11.5	1022		159	92				
6:35	11.5	1022		158	91				
6:40	11.5	1022		158	91				
6:45	11.5	1022		157	90				
6:50	11.5	1022		156	89				
6:55	11.5	1022		156	89				
7:00	11.5	1022		156	89				

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28690

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Phone 515 232-3563

Job..... City of Clear Lake Well no. 2 Date Tested..... August ¹⁵~~14~~, 1987
Location..... Tested By.....
Dia. of Well..... Driver.....
Depth of Well..... Pump Used: Column and Shaft.....
Length of Airline..... Bowls.....
Non-Pumping Level..... Manufacturer.....
Orifice Size..... Serial No.....

Time	Pizometer Reading (in.)	G. P. M.	Air Gauge Reading (feet)	Pumping Level	Drawdown	Disch. Pressure		Total Pumping Head	Remarks
						Lbs.	Feet		
7:05 a.m.	11.5	1022		156	89				
7:10	11.5	1022		155	88				
7:15	11.5	1022		155	88				
7:20	11.5	1022		155	88				
7:25	11.5	1022		154	87				
7:30	11.5	1022		154	87				
7:35	11.5	1022		153	86				
7:40	11.5	1022		153	86				
7:45	11.5	1022		153	86				
7:50	11.5	1022		153	86				
7:55	11.5	1022		153	86				
8:00	11.5	1022		153	86				
8:05	11.5	1022		153	86				Shut down.
	RECOVERY TEST								
8:06				125					
8:07				116					
8:10				100					
8:13				98					
8:17				95					
8:20				94					
8:25				93					
8:30				92					
8:35				90					
8:40				90					
8:45				89					



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Job..... City of Clear Lake Well no. 2 Date Tested..... August 14, 1987.....
Location.....
Dia. of Well.....
Depth of Well..... Pump Used:
Length of Airline..... Column and Shaft.....
Non-Pumping Level..... Bowls.....
Orifice Size..... Manufacturer
Serial No.....

Time	Pizometer Reading (in.)	G. P. M.	Air Gauge Reading (feet)	Pumping Level	Drawdown	Disch. Pressure		Total Pumping Head	Remarks
						Lbs.	Feet		
8:50		RECOVERY TEST		88					
9:00				86					
9:15				84					
9:30				82					
9:45				81					
10:00				81					
10:15				80.5					
10:30				80.5					
10:45				80					
11:00				79.5					
11:15				79					
11:30				78.5					
11:45				78.5					
12:00 noon				78					
12:15				77.5					
12:30				77.5					
12:45				77.5					
1:00 p.m.				77.5					
1:15				77					
1:30				77					
1:45				77					
2:00				77					
2:15				77					
2:30				77					
2:45				77					

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Job..... City of Clear Lake..... Well no. 2..... Date Tested..... August 14, 1987.....
Location.....
Dia. of Well.....
Depth of Well.....
Length of Airline.....
Non-Pumping Level.....
Orifice Size.....

Pump Used:.....
Column and Shaft.....
Bowls.....
Manufacturer.....
Serial No.....

Time	Pizometer Reading (in.)	G. P. M.	Air Gauge Reading (feet)	Pumping Level	Drawdown	Disch. Pressure		Total Pumping Head	Remarks
						Lbs.	Feet		
3:00 p.m.	26	1536	RECOVERY TEST	77	10				
3:15	26	1536		76.5	69				
3:30	26	1536		76.5	71				
3:45	26	1536		76.5	82				
4:00	26	1536		76	77				
5:00	26	1536		76	98				
6:00	26	1536		76	96				
7:00	26	1536		76	95				
8:00	26	1536		76	96				
8:45	26	1536		166	97				
8:50	26	1536		165	98				
8:55	26	1536		165	98				
9:00	26	1536		166	99				
9:15	26	1536		166	101				
9:30	26	1536		171	104				
9:45	26	1536		174	107				
10:00	26	1536		178	111				
10:15	26	1536		181	114				
11:00	26	1536		180	116				
12:00 noon	26	1536		185	118				
1:00 p.m.	26	1536		185	118				
2:00	26	1536		185	118				
3:00	26	1536		186	119				
4:00	26	1536		187	120				
5:00	26	1536		187	122				