

1987

#28757

IOWA

DEC 14 1987

GEOL. SURVEY

Layne-Western Company, Inc.

A Marley Company

705 South Duff Avenue • Ames, Iowa 50010 • 515/232-3563

December 8, 1987

Iowa Department of Natural Resources
Henry A. Wallace Building
Des Moines, Iowa 50319

Attn: Water Resources Division

Re : Well No. 3 - Blairsburg, Iowa

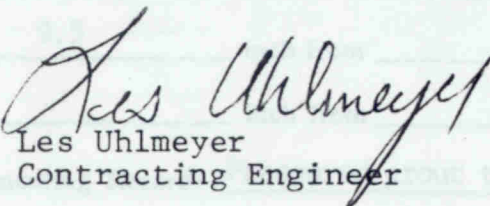
Gentlemen:

Please find enclosed information on the new water well referenced above. A water quality analysis is not available at this time. We will forward it as soon as it is available. We have the drill cuttings at our shop for you to pick up when convenient.

If you have any questions, please feel free to contact us.

Very truly yours,

LAYNE-WESTERN COMPANY, INC.


Les Uhlmeyer
Contracting Engineer

LU:grt

Enclosure

Blairsburg BK
town
Well
Layne Western
Ames



WATER SUPPLY SERVICES



Layne-Western Company, Inc.

WATER SUPPLY CONTRACTORS

705 SO. DUFF AVE.

AMES, IOWA 50010

Phone 515 232-3563

Name of Job City of Blairsburg New Well Date 11/02/87
 City Blairsburg State Iowa
 Well No: 87-1 Drillers: Dean Heldt
 Well Location: _____ ft. (____) and _____ ft. (____) of the _____ corner of
 the _____ $\frac{1}{4}$ of Section _____, Twp. _____ (____), Range _____ (____) Hamilton County.
 Otherwise located as south of fire station drive

Work Began: _____ Work Completed: _____

Casing Record:

Amount	Dia.	Wt. or Thickness	Material
<u>493</u>	<u>10"</u>	<u>.375</u>	<u>steel with P.F. joints from 393 to 0</u>
_____	_____	_____	_____ with _____ joints from _____ to _____
_____	_____	_____	_____ with _____ joints from _____ to _____
_____	_____	_____	_____ with _____ joints from _____ to _____

Hole Record:

<u>22</u>	inch from	<u>0</u>	to	<u>21'</u>
<u>17.5</u>	inch from	<u>21'</u>	to	<u>311'</u>
<u>16 5/8</u>	inch from	<u>311'</u>	to	<u>495'</u>
<u>9.5</u>	inch from	<u>495</u>	to	<u>750'</u>
_____	inch from	_____	to	_____ bottom of hole

Cementing Record: Pressured grout through Baker cement shoe with 340 sacks portland plus 4% admixture Bentonite

Well Test Data: Static Level _____; pumping level _____ after _____ hours pumping at _____ g.p.

Length of test _____ hrs. See Well Test Data Sheet Dated _____

Remarks: _____

SEE OTHER SIDE

WELL LOG

#28757

Feet	Feet	Description
0	3	Top soil
3	7	Brown clay
7	15	Brown till
15		Blue gray till
	74	Very pebbly w/cobbles boulders 69-71
74	150	Very hard greenish till
150	157	Off white to brown till
157	163	Dark brown limestone
163	172	Brown clay or loess inner bedded limestone
172	189	Light gray shale w/limestone
189	230	Dark gray shale w/some limestone
230	300	Off white limestone w/traces of shale
300	335	White limestone
335	357	Brown limestone
357	430	Gray & brown limestone
430	440	Light gray shale
440	447	Light brown to brown limestone
447	479	Gray shale w/limestone
479	485	Light gray limestone
485	550	White limestone
550	553	Light brown to white limestone
553	572	Green gray limestone
572	578	White to brown limestone
578	582	Dark brown dolomite
582	593	Dark brown limestone
593	598	Light brown limestone
598	603	Light gray to brown limestone
603	613	Green shale
613	616	Greenish gray limestone
616	619	Green shale
619	625	Green gray limestone w/shale streaks
625	631	Brown limestone
631	642	Greenish gray shaley limestone
642	672	Green shale w/limestone
672	676	Gray limestone
676	686	Light brown limestone
686	692	Greenish shaley limestone
692	701	Grayish brown limestone
701	735	Brown limestone
735	739	Greenish limestone
739	750	Off white limestone
750		Bottom of boring

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WATER SUPPLY CONTRACTORS

705 SO. DUFF AVE.

AMES, IOWA 50010

Phone 515 232-3563

Job..... City of Blairsburg Well no. 3 Date Tested..... 11/12/87
 Location..... Fire Station Tested By..... D. Osterhout & D. Butler
 Dia. of Well..... 10" Driver.....
 Depth of Well..... 750' Pump Used: Column and Shaft..... 6"x1 1/2"
 Length of Airline..... 350' Bowls..... 8" 15 stage
 Non-Pumping Level..... 182' Manufacturer..... Layne
 Orifice Size..... 4x2 Serial No.....
 168

Time	Pizometer Reading (in.)	G. P. M.	Air Gauge Reading (feet)	Pumping Level	Drawdown	Disch. Pressure		Total Pumping Head	Remarks
						Lbs.	Feet		
10:00	17.0	62.3	76	274	92	40	92.0	366.0	water is cloudy
10:15	27.5	79.2	40	310	128	25	57.5	367.5	and smells
10:30	26.0	77.0	36	314	132	25	57.5	371.5	
10:45	25.0	75.5	34	316	134	25	57.5	373.5	pH - 6
11:00	25.0	75.5	32	318	136	25	57.5	375.5	
11:15	25.0	75.5	32	318	136	25	57.5	375.5	S.C. = .555
11:30	25.0	75.5	32	318	136	25	57.5	375.5	
11:45	24.5	74.7	33	317	135	25	57.5	374.5	
12:00	24.5	74.7	33	317	135	25	57.5	374.5	
1:00	25.0	75.5	26	324	142	25	57.5	381.5	
2:00	25.0	75.5	26	324	142	20	46.0	370.0	
3:00	24.5	74.7	26	324	142	20	46.0	370.0	Almost clear
4:00	24.5	74.7	26	324	142	20	46.0	370.0	Doesn't smell
5:00	24.5	74.7	26	324	142	20	46.0	370.0	as bad
6:00	24.5	74.7	26	324	142	20	46.0	370.0	Clear
7:00	24.5	74.7	26	324	142	20	46.0	370.0	
8:00	24.5	74.5	26	324	142	20	46.0	370.0	Took water
9:00	27.5	79.2	16	334	152				samples
10:00	27.5	79.2	16	334	152				
11:00	27.5	79.2	16	334	152				
12:00	27.5	79.2	16	334	152				
1:00	27.5	79.2	16	334	152				
2:00	27.5	79.2	334	152					
3:00									
4:00									



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Serial No.....

[illegible]