

IOWA GEOLOGICAL SURVEY
Iowa City, Iowa
WELL OR WATER SAMPLE DATA

Bottle No. 374
I.G.S. Well No. _____

TOWN Lansing COUNTY Allamakee

LOCATION NE NW SW sec 30 T. 99 N., R. 3 E. _____ Twp.

OWNER OF WELL Turn of Lansing (1969) WELL No. _____

USE OF WATER: Municipal supply (☒); Private-domestic (); Public drinking (); Livestock (); Industrial (☒); School supply (); Air Conditioning (); Cooling (); ().

CONTRACTOR George Shawyer DATE STARTED 8/1/69
DATE FINISHED 9/1/69

CASING OR CURBING DATA: (Show by diagram on opposite side of sheet the kind, length and depth of top and bottom of each size of pipe, the amount of overlaps, position of seals or packers, pipe performance and screens, etc.)

10" CASING TO 413'

WELL DATA Present Final
Curb Elevation _____ Ft. Depth _____ Ft. Depth 796' Ft.

Ground Elevation _____ Ft. Topographic Position _____

Static Level (Depth to water (above) curb) 37 Ft. Level 82 Ft. Pumping
(below)

Amount of Drawdown 45 Ft. pumping at 415 g.p.m. in 29 hrs.
minutes.

Specific Capacity _____ g.p.m. per ft. drawdown in _____ hrs.

Type of Pump _____ Power _____

Depth of Bottom of Pump _____ ft. with _____ ft. of suction pipe.

TEMPERATURE: Air _____ °F.; Water _____ °F., measured after well had pumped _____ hrs. and _____ mins. at _____ g.p.m.; _____ ft. from pump after water had passed through the following pipe _____
Time _____ (A.M.)
_____ (P.M.)

SOURCE OF WATER:
Principal producing formation MT. SIMON 410 ft. to 790' ft.

Other producing formations _____ ft. to _____ ft.

REMARKS: (Taste, odor, and appearance) CLEAN

Sample taken for: Mineral analysis (☒); Sanitary analysis ()
Data collected by _____ Date 10/28/69

Copies to: CITY CLERK, LANSING, IOWA OK 12/5/69
GEORGE SHAWYER, FREDERICKSBURG, IOWA OK " " 2

9-26-69
AP 11-11-70

STATE	COUNTY	LATITUDE			LONGITUDE			SEQ NO										
		DEG	MIN	SEC	DEG	MIN	SEC											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
19	03	4	3	2	1	3	5	N	0	9	1	1	4	5	0	1		

WELL SCHEDULE
US GEOLOGICAL SURVEY

IOWA	DISTRICT	WRD
------	----------	-----

WEI	NO
21728	

ALLAMAKEE

WELL NO. _____
OWNER _____
LANISING CITY WELL

ADDRESS LANSING

OWNER - SHAWVER
DRILLER

DATE DRLO 8-69

MAP _____
SOURCE OF DATA FILE

DESCRIPTION	M.P.	L.S.D.
1. 100% pure	100	100
2. 100% pure	100	100
3. 100% pure	100	100
4. 100% pure	100	100
5. 100% pure	100	100
6. 100% pure	100	100
7. 100% pure	100	100
8. 100% pure	100	100
9. 100% pure	100	100
10. 100% pure	100	100
11. 100% pure	100	100
12. 100% pure	100	100
13. 100% pure	100	100
14. 100% pure	100	100
15. 100% pure	100	100
16. 100% pure	100	100
17. 100% pure	100	100
18. 100% pure	100	100
19. 100% pure	100	100
20. 100% pure	100	100
21. 100% pure	100	100
22. 100% pure	100	100
23. 100% pure	100	100
24. 100% pure	100	100
25. 100% pure	100	100
26. 100% pure	100	100
27. 100% pure	100	100
28. 100% pure	100	100
29. 100% pure	100	100
30. 100% pure	100	100
31. 100% pure	100	100
32. 100% pure	100	100
33. 100% pure	100	100
34. 100% pure	100	100
35. 100% pure	100	100
36. 100% pure	100	100
37. 100% pure	100	100
38. 100% pure	100	100
39. 100% pure	100	100
40. 100% pure	100	100
41. 100% pure	100	100
42. 100% pure	100	100
43. 100% pure	100	100
44. 100% pure	100	100
45. 100% pure	100	100
46. 100% pure	100	100
47. 100% pure	100	100
48. 100% pure	100	100
49. 100% pure	100	100
50. 100% pure	100	100
51. 100% pure	100	100
52. 100% pure	100	100
53. 100% pure	100	100
54. 100% pure	100	100
55. 100% pure	100	100
56. 100% pure	100	100
57. 100% pure	100	100
58. 100% pure	100	100
59. 100% pure	100	100
60. 100% pure	100	100
61. 100% pure	100	100
62. 100% pure	100	100
63. 100% pure	100	100
64. 100% pure	100	100
65. 100% pure	100	100
66. 100% pure	100	100
67. 100% pure	100	100
68. 100% pure	100	100
69. 100% pure	100	100
70. 100% pure	100	100
71. 100% pure	100	100
72. 100% pure	100	100
73. 100% pure	100	100
74. 100% pure	100	100
75. 100% pure	100	100
76. 100% pure	100	100
77. 100% pure	100	100
78. 100% pure	100	100
79. 100% pure	100	100
80. 100% pure	100	100
81. 100% pure	100	100
82. 100% pure	100	100
83. 100% pure	100	100
84. 100% pure	100	100
85. 100% pure	100	100
86. 100% pure	100	100
87. 100% pure	100	100
88. 100% pure	100	100
89. 100% pure	100	100
90. 100% pure	100	100
91. 100% pure	100	100
92. 100% pure	100	100
93. 100% pure	100	100
94. 100% pure	100	100
95. 100% pure	100	100
96. 100% pure	100	100
97. 100% pure	100	100
98. 100% pure	100	100
99. 100% pure	100	100
100. 100% pure	100	100

FEET	(ABOVE)	(BELOW)	LSD
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			
41			
42			
43			
44			
45			
46			
47			
48			
49			
50			
51			
52			
53			
54			
55			
56			
57			
58			
59			
60			
61			
62			
63			
64			
65			
66			
67			
68			
69			
70			
71			
72			
73			
74			
75			
76			
77			
78			
79			
80			
81			
82			
83			
84			
85			
86			
87			
88			
89			
90			
91			
92			
93			
94			
95			
96			
97			
98			
99			
100			

CONTINUED FROM ABOVE	ACCURACY	LOCAL WELL NUMBER												LOCAL USE			OWNER OR NAME	OWNERSHIP																																										
		T		R	E _w	SEC	QUARTERS		W-NUMBER		OPTIONAL		WELL USE	WELL DATA	FREQ. W/L	FIELD CHAR		HYD LAB	GW-DATA	GW-FREQ.	PUMPAGE	APERTURE	LOG DATA	CARD DESIG																																				
		20	21	22	23	24	25	26	27	28	29	30													31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
20	21	22	23	24	25	26																																																						

WELL-DESCRIPTION CARD - B

[illegible]

HYDROGEOLOGIC CARD - C

[illegible][illegible]

413' of 10" csq +3' to 410'

CODED BY MACGOWAN KH

DATE 7-11-72

PUNCHED BY HEXUM

DATE 7-12-72

VERIFIED BY _____ DATE _____

DATE _____

SKETCH ON REVERSE: YES

NO

WELL NO. 21728



UNITED STATES DEPARTMENT OF THE INTERIOR
Geological Survey
Water Resources Division

W-21728
09903W30CBDA
LANSING CITY WELL

Water Quality
(ppm)

Card Q

State: IOWA 19 County: ALLAMAKEE 03 Town: LANSING

Well No. 432135N 0911450 Seq. No. 1 Date 112569

Sampling Depth 26 29 Type 30 Kx10⁶ 620 pH 7.4 Temp. °F 39 41

SiO₂ 8.8 Ca 44 Mg 13 Na 71 K 9.3

HCO₃ 285 CO₃ 0 SO₄ 53 Cl 32 Source No. 3 Q

Card R

Duplicate Columns 1-25 from Card Q

F 0.6 NO₃ 0.4 PO₄ 33 35 B 36 38 Al 39 41 Fe 1.6

Mn 0.05 Cu 50 52 Pb 53 54 Zn 55 57

Determined 362 Solids 63 Calc. 64 69 Ca, Mg 161 Hardness 70 73 Non-Carb. 74 77

Color 78 79 No. R 80

Card S

Duplicate Columns 1-25 from Card Q

Br 26 28 I 29 31 Alk. as CaCO₃ 234 Free CO₂ 36 38 SAR 39 41

RSC 42 44 ABS 45 47 48 50

Alpha (pc/l) 55 57 Beta (pc/l) 58 60 Ra (pc/l) 61 63 U (ug/l) 64 66

No. S
80

Recorded by: MACGOWAN

Punched by: MACGOWAN Date: 7-12-72

Published: _____

AUG 28 '95 15:08 SHAWVER WELL CO INC

3192376484

TO:

608 269 9547 P01

SHAWVER WELL CO., INC.
WELL LOG DATA

```
Well NO: 6908044
Owner Name: LANSING CO. & NORTHERN TECHNOMEN
Second Name:
Address1: INDUSTRIAL PARK
Address2:
City: LANSING IA
Zip: 52151
Short Co. Name: ALL Allamakee
Township:
Section:
Quarters:
Start Date: 09/01/69 - Well no. 1
End Date:
```

w21728

Log of Well	0'	TO	19'	TOPSOIL & YELLOW CLAY	(red did clay, yellow) rmt Topsoil + yellow clay
	19'	TO	62'	SAND (BROWN)	
	62'	TO	83'	COARSE BROWN SAND	
30	83'	TO	85'	LIMEROCK	did Lime (rmt: Limerock)
	85'	TO	98'	BLUE SHALE	
?	98'	TO	178'	BROWN SANDROCK	- did sand, br (rmt: Sandrock)
	178'	TO	230'	WHITE SANDROCK	did sand, wh (" ")
	230'	TO	250'	GRAY SANDROCK	" " gr (" ")
	250'	TO	324'	BLUE SHALE	
	324'	TO	401'	SHALE & LIMEROCK	sh + L.S (rmt - shale + Limerock)
	401'	TO	675'	SANDSTONE	
	675'	TO	770'	SANDSTONE/ THIN LAYERS OF RED SHALE	
	770'	TO	790'	COARSE SANDSTONE	
	790'	TO	793'	WHITE SHALE	
	793'	TO	795'	RED SHALE	
	795'	TO	798'	GRANITE	

Description

THE WELL WAS CASSED FROM 3' ABOVE GROUND LEVEL TO 410' BELOW GROUND LEVEL, AN 18" HOLE WAS DRILLED TO 120', A 12 1/2" HOLE DRILLED FROM 120' TO 410' AND CEMENT GROUT PLACED IN ANNULAR SPACE SURROUNDING THE [10 3/4" OD CASING] A 102' [HOLE UNCASSED FROM 410' TO 796']

Static Water Level: 37'
Pump Setting: 82' 8" AT 415 GALLONS PER MIN & 71' AT 302 GPM
Water Test: _____
Bore Hole Data _____

Driller:

SHAWVER WELL COMPANY, INC.
P.O. Box 266 Highway 18 East
FREDERICKSBURG, IOWA 50630
(319) 227-5341

Post-It Fax Note		7671	Date	8/23/06	# of pages	1
To	Darrel Zietlow		From	Ann		
Co./Dept.	Northern Eng.		Co	Spraw Ver W		
Phone #			Phone #	319/237-5344		
Fax #	608/269-9541		Fax #	319/237-6484		