

AUG 22 1956

Burlington Well Drilling Service

JONES & SCHMEISER

1111 Hageman Avenue • Phone PL 4-7367

BURLINGTON, IOWA

Aug. 22, 1956

Log of Crafordville Well

Detailed log on drilling formations

Sample No.	FROM	TO	THICKNESS	KIND OF ROCK, COLOR HARD OR SOFT.
1.	551	557	6	brown, soft
2.	557	565	8	Gray, Hard
3.	565	571	6	Gray, Hard
4.	571	579	8	gray & brown, broken, drills stuck
5.	579	585	6	brown & white
6.	585	593	8	brown, gray, & white
7.	593	599	6	gray, some broken shale
8.	599	606	7	gray, hard
9.	606	613	7	gray, softer
10.	613	620	7	gray
11.	620	623	3	gray
12.	623	631	8	gray & brown
13.	631	639	8	gray
14.	639	649	10	gray & brown
15.	649	656	7	gray & brown
16.	656	662	6	Pink Lime at base Maquoketa #661
17.	662	667	5	green shale, hard
18.	667	672	5	red shale
19.	672	676	4	shale gray & green
20.	676	679	3	shale gray
21.	679	682	3	shale gray
22.	682	686	4	shale gray
23.	686	690	4	shale, gray
24.	690	694	4	shale, gray
24.	694	700	6	shale, gray
25.	700 727	727	27	blueish shale
26.	727	731	4	blueish shale
27.	731	735	4	blueish shale
28.	735	738	3	blueish shale
29.	738	741	3	blueish shale
37.	741	746	5	bleish gray, shale
38.	746	751	5	blueish gray, shale
39.	751	756	5	"
40.	756	759	3	"
41.	759	763	4	green
42.	763	765	2	"
43.	765	778	10	gray, shale, hard
44.	778	783	5	hard
45.	783	788	5	hard
46.	788	795	7	hard blueish green shale
47.	795	799	4	Hard some dolomite
48.	799	801	2	hard
49.	801	803	2	hard
50.	803	808	5	har, green Shale

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Sample No.	From	TO	THICKNESS	KIND OF ROCK, COLOR HARD OR SOFT
51	808	811	3	hard shale
52	811	814	3	"
53	814	818	4	"
54	818	823	5	"
55	823	829	6	"
56	829	833	5	"
57	833	838	5	Soft
58	838	844	6	gray shale hard
59	844	848	4	gray shale some brown rock
60	848	852	4	hard
61	852	856	4	very hard
62	856	860	4	"
63	860	870	10	"
64	870	875	5	Softer
65	875	880	5	"
66	880	885	5	brown shale
67	885	887	2	brown some rock
68	887	895	8	hard, shale
69	895	900	5	Galena lime 8897
70	900	905	5	gray & brown lime
71	905	910	5	brown lime 10" hole reduced to 8" 8910'
72	910	920	10	brown
73	920	932	12	brown lime some gray
74	932	944	12	" "
75	944	955	11	brown & gray lime
76	955	965	10	" "
77	965	975	10	" " harder
78	975	985	10	" " some white
79	985	997	12	" " "
80	997	1009	12	" " "
81	1009	1020	11	" " "
82	1020	1030	10	" " "
83	1030	1041	11	" " "
84	1041	1052	11	" " "
85	1052	1063	11	" " " harder
86	1063	1074	11	" " "
87	1074	1080	6	" " "
88	1080	1085	5	" " "
89	1085	1091	6	" " "
90	1091	1095	4	" " "
91	1095	1101	6	" " " chalky
92	1101	1106	5	" " some chalk
93	1106	1113	7	" " "
94	1113	1118	5	" " "
95	1118	1124	6	dark brown - 1122 softer (deceah)

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Sample No.	From	TO	THICKNESS	KIND OF ROCK, COLOR HARD OR SOFT
96	1124	1131	7	dark brown & some gray
97	1131	1136	5	" gray white, shale break? (blue green
98	1136	1142	6	" some gray or white
99	1142	1147	5	light brown some gray or white
100	1147	1153	6	gray hard lime
101	1153	1158	5	" "
102	1158	1163	5	" " some white chalky
103	1163	1169	6	gray, brown lime " "
104	1169	1174	5	" "
105	1174	1179	5	brown lime
106	1179	1181	2	brown (drilled up part of bailer bucket)
107	1181	1184	3	sand-stone, some shale
108	1184	1190	6	" very hard
109	1190	1194	4	shale very sticky green
110	1194	1198	4	" "
111	1198	1202	4	" "
112	1202	1206	4	" "
113	1206	1211	5	1' shale 4' sandstone
114	1211	1217	6	white sandstone
115	1217	1220	3	" "
116	1220	1224	4	" "
117	1224	1228	4	" "
118	1228	1232	4	" "
119	1232	1238	6	" "
120	1238	1243	5	rock at base of run
121	1243	1246	3	limestone tan
122	1246	1251	5	" hard
123	1251	1258	7	" "
124	1258	1264	6	light tan limestone hard
125	1264	1270	6	" " " "
126	1270	1276	6	" " " "
127	1276	1282	6	" " " "
128	1282	1291	9	" " " "
129	1291	1297	6	" " " "
130	1297	1304	7	" " " "
131	1304	1310	6	" " " "
132	1310	1317	7	" " " " white streaks lime
133	1317	1324	7	" " " " "
134	1324	1330	6	" " " " "
135	1330	1336	6	" " " " "
136	1336	1343	7	hard & some brown
137	1343	1350	7	tan lime some white streaks
138	1350	1356	6	" "
139	1356	1361	5	brown - tan some white

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Sample No.	FROM	TO	THICKNESS	KIND OF ROCK, COLOR HARD OR SOFT
140	1361	1368	7	water bearing tan & gray Dolomite
141	1368	1374	6	" " "
142	1374	1381	7	" " "
143	1381	1388	7	" " "
144	1388	1392	4	" " "
145	1392	1399	7	? " some lime
146	1399	1404	5	pink & white lime some gray (hard)
147	1404	1409	5	grayish-tan lime
148	1404	1415	6	light tan limestone
149	1415	1421	6	" " some gray
150	1421	1426	5	" " some pink & gray
151	1426	1434	8	" " " (hard)
152	1434	1445	11	light tan Dolomite water bearing
153	1445	1455	10	" " " softer
154	1455	1466	11	dark tan limestone harder, waterbearing
155	1466	1476	10	sandstone-hardly any cuttings
156	1476	1487	11	sandy - Dolomite
157	1487	1497	10	" "
158	1497	1507	10	" "
159	1507	1513'8½"	6' 8½"	light tan limestone - Dolomite

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Town of Crawfordville, Iowa
Iowa Geological Survey

Pipe log;

First 25 feet of 12 Inch pipe is cement grouted.

134 feet 9 inches of 12 inch welded pipe from Plus

538 feet 9 inches of 10 inch threaded & coupled pipe.

330 feet of 10 inch welded pipe

69 feet of 8" 29 lb. threaded & coupled pipe

Drive shoes on top & bottom

354 feet of 7 inch O. D. pipe 26 lb. 6½ inside Diameter

Drive shoes on top & bottom

x 2'-137' 9"

x 2'-868' 9"

841- 910'

900'-1254'

Drillers log;

Devonian Limestone

551-661

Maquoketa shale

661-897

Galena Limestone

897-1181

St Peters Sandstone

1181-1243

Prairie du Chien

1243-1513-8"

Water bearing

1361-1509.

Hole Size;

10"

Plus 2'-841'

8"

841-900'

6½"

900-to bottom

Yours truly,

Burlington Well Drilling Service

074-06W-15 BBD

W-7308

IOWA GEOLOGICAL SURVEY

In Cooperation with U. S. Geological Survey

RECORD OF WELL

074-06W-15 BCAC

Location:

1980/ field located by D. Runkle

Town: CRAWFORDSVILLE

(NE)

(SW): County WASHINGTON

E.

sec. 15 T. 74 N., R. 6 W. CRAWFORD Twp.

Well name and number _____

Owner CRAWFORDSVILLE TOWN WELL (1956) Address _____

Tenant _____ Address _____

Contractor HOEG & AMES 0-551 Address _____Drillers JONES & SCHMEISM 551-1513' 8 1/2"Drilling dates SEPT. 1955 - AUG. 1956

Well data:

Altitudes: Drilling curb _____ feet; Land surface 719' feet

Determined by _____

Topographic position _____

Total depth: Reported 1513' 8 1/2" feet, Measured _____ feetDrilling method CABLE TOOLSHole and casing data 22' 4" OF 16" OD PIPE135' 7 3/4" OF 12" I.D. PIPE334' 2" OF 10" SET AT 551' - LATER RUN TO TOP GALENA354' OF 7" 900'-1254'Original depth to water 149 ^{above} ft. below _____ Date _____

Source of data _____

Sources of water: Principal PRAIRIE du CHIEN

Others _____

Production Data

Date Aug. 19, 1956
 Static water level 149
 Measuring point _____
 Pumping water level 192
 Yield (g. p. m.) 83
 Duration of pumping _____
 Specific capacity _____

Pump Data

Type pump _____ Column diameter and length _____
 Cylinder or bowls diameter and length _____
 Suction pipe _____ Airline _____
 Power _____ Production _____ g. p. m. for _____ hours per day
 Use of water _____

Dissolved constituents and properties (in parts per million except as indicated)

Date sampled _____
 Sampled by _____
 Silica (SiO₂) _____
 Iron (Fe) _____
 Manganese (Mn) _____
 Calcium (Ca) _____
 Magnesium (Mg) _____
 Potassium (K) _____
 Sodium (Na) _____
 Carbonate (CO₃) _____
 Bicarbonate (HCO₃) _____
 Sulfate (SO₄) _____
 Chloride (Cl) _____
 Fluoride (F) _____
 Nitrate (NO₃) _____
 Dissolved solids _____
 Hardness (as CaCO₃) _____
 Total _____
 Grains per gallon _____
 Noncarbonate _____
 Alkalinity (as CaCO₃) _____
 pH _____
 Specific conductance _____
 (micromhos at 25°C) _____
 Temperature (°F) _____
 Analysis No. _____

Laboratory Data

Well No. **W 7308** Sample range 0-1513 No. of samples 53+71+38+4
 No. of dupls. and cond. 53+58+71+9 Washed range 135-768-1476
 Samples prepared by Johnson, Stone, Darland Date 9-23-55 7/11/56 8/13/56
 Logged by NORTHUP Date SEPT. 1955 - AUG. 1956 8/15/56
 Correlations by _____ Date _____