

Record of Cherryvale City Well, Montgomery County.

PLATE XXII.

Obtained from the City Clerk's Records.

MATERIAL.		Thickness of Strata.		Depth to Bottom of Strata.	
1	Soil and Clay	6 feet	6 inches	6 feet	6 inches
2	Limestone, calcareous, carrying crinoids	8 "	6 "	13 "	"
3	Sandstone	14 "	"	27 "	"
4	Shale, sandy	5 "	"	32 "	"
5	Sandstone	11 "	"	43 "	"
6	COAL		3 inches	43 "	3 inches
7	Shale, gray	6 feet	9 "	50 "	"
8	Sandstone	34 "	"	84 "	"
9	Shale, blue	6 "	"	90 "	"
10	Limestone	13 "	"	103 "	"
11	Blue Shale	50 "	"	153 "	"
12	Limestone	10 "	"	163 "	"
13	Shale, blue	55 "	10 inches	218 "	10 inches
14	COAL		2 "	219 "	"
15	Shale	23 feet	"	242 "	"
16	Limestone	23 "	"	265 "	"
17	Shale, gray	16 "	"	281 "	"
18	Limestone	14 "	"	295 "	"
19	Shale, black	3 "	"	298 "	"
20	Limestone and Shale	15 "	"	313 "	"
21	Sandy Shale	18 "	"	331 "	"
22	Oil Sand	21 "	"	352 "	"
23	Shale	85 "	"	437 "	"
24	Limestone	21 "	"	458 "	"
25	Shale	8 "	6 inches	466 "	6 inches
26	COAL		4 "	466 "	10 "
27	Shale	15 feet	2 "	482 "	"
28	Oil Sand	44 "	"	526 "	"
29	Limestone	32 "	"	558 "	"
30	Shale, gray and bituminous	8 "	"	566 "	"
31	Limestone	20 "	"	586 "	"
32	Shale, blue and bituminous	6 "	6 inches	592 "	6 inches
33	Limestone	8 "	6 "	601 "	"
34	Shale	15 "	"	616 "	"
35	COAL		8 inches	616 "	8 inches
36	Shale, dark	1 feet	4 "	618 "	"
37	Shale, sandy	22 "	"	640 "	"
38	Shale, blue	4 "	"	644 "	"
39	COAL		6 inches	644 "	6 inches
40	Shale, blue	5 feet	6 "	650 "	"
41	Limestone	1 "	"	651 "	"
42	Shale, blue	9 "	"	660 "	"
43	Limestone	5 "	"	665 "	"
44	Shale, blue	2 "	"	667 "	"
45	Shale, black	3 "	2 inches	670 "	2 inches
46	COAL		4 "	670 "	6 "
47	" Sulphur "		2 "	670 "	8 "
48	" Coal "		4 "	671 "	"
49	Shale, gray	5 feet	"	676 "	"
50	Shale, blue	40 "	"	716 "	"
51	Shale, black	1 "	"	717 "	"
52	COAL		5 inches	717 "	5 inches
53	Shale, gray	3 feet	7 "	721 "	"
54	Shale, blue	13 "	"	734 "	"
55	Sandstone	23 "	"	757 "	"
56	Shale, blue	13 "	"	770 "	"
57	Shale, black	12 "	2 inches	782 "	2 inches
58	COAL		10 "	783 "	"
59	Shale, sandy	2 feet	"	785 "	"
60	Sandstone	4 "	"	789 "	"
61	Shale, gray	13 "	"	802 "	"
62	Shale, blue	17 "	"	819 "	"
63	Shale, gray	8 "	"	827 "	"
64	Sandstone	4 "	"	831 "	"
65	Shale, blue	28 "	8 inches	859 "	8 inches
66	COAL		4 "	860 "	"
67	Sandstone	4 feet	"	864 "	"
68	Shale, blue	23 "	"	887 "	"
69	Shale, gray	3 "	"	890 "	"
70	Shale, blue	43 "	"	933 "	"
71	COAL		10 inches	933 "	10 inches
72	Fire Clay	4 feet	2 "	938 "	"
73	Shale, blue	5 "	"	943 "	"
74	Fire Clay	4 "	"	947 "	"
75	Shale, blue	11 "	"	958 "	"
76	Shale, gray	5 "	"	963 "	"
77	Shale, blue	2 "	"	965 "	"
78	Shale, sandy	6 "	"	971 "	"
79	Shale, blue	22 "	"	993 "	"
80	COAL		11 inches	993 "	11 inches
81	" Sulphur "		1 "	994 "	"
82	COAL		5 "	995 "	5 "
83	Shale, dark	5 "	9 "	1,001 "	2 "
84	Shale, blue	3 "	4 "	1,004 "	6 "
85	Limestone	3 "	6 "	1,008 "	"
86	Chert Rock	4 "	"	1,012 "	"
87	Chert and Limestone	18 "	"	1,030 "	"
88	Limestone	14 "	"	1,044 "	"
89	Limestone, hard	5 "	"	1,049 "	"
90	Limestone	44 "	"	1,093 "	"
91	Chert	3 "	6 inches	1,096 "	6 inches
92	Broken Limestone and Chert	7 "	6 "	1,104 "	"
93	Chert	27 "	"	1,131 "	"
94	Limestone and Chert	28 "	"	1,159 "	"
95	Chert	15 "	"	1,174 "	"
96	Limestone and Chert	5 "	"	1,179 "	"
97	Chert	3 "	"	1,182 "	"
98	Limestone and Chert	38 "	"	1,220 "	"

Record of the Neodesha Well, Wilson County.

PLATE XXII.

Drilled on the Pierce Bros. Farm by Guffey & Galey.

MATERIAL.		Thickness of Strata.		Depth to Bottom of Strata.	
1	Soil	45 feet		45 feet	
2	Shale	22 "		67 "	
3	Limestone	68 "		135 "	
4	Shale	50 "		185 "	
5	Limestone	80 "		265 "	
6	Shale	20 "		285 "	
7	Limestone	15 "		300 "	
8	Black Shale	20 "		320 "	
9	Limestone, gas	50 "		370 "	
10	Shale	20 "		390 "	
11	Limestone	25 "		415 "	
12	Gray Shale	35 "		450 "	
13	Oil Sand	30 "		480 "	
14	Gray Shale	40 "		520 "	
15	Limestone	35 "		555 "	
16	Sand, gas	10 "		565 "	
17	Shale	5 "		570 "	
18	Limestone	15 "		585 "	
19	Oil Sand	10 "		595 "	
20	Shale	15 "		610 "	
21	Limestone	25 "		635 "	
22	Oil Sand	10 "		645 "	
23	Shale	10 "		655 "	
24	Limestone	8 "		663 "	
25	Shale	5 "		668 "	
26	Limestone	11 "		679 "	
27	Shale	135 "		814 "	
28	Oil Sand	16 "		830 "	
29	Shale	110 "		940 "	
30	Oil Sand	83 "		1,023 "	
31	Shale	40 "		1,063 "	
32	Limestone	44 "		1,107 "	

As the well was drilled with a "churn" drill and the sand pump used only once in five feet, it is quite probable that thin intervening shale beds exist in the heavy limestones near the top. The Cherokee shales here are over 425 feet thick.

Figure 1.

CHERRYVALE WELL
Diamond Drill Core

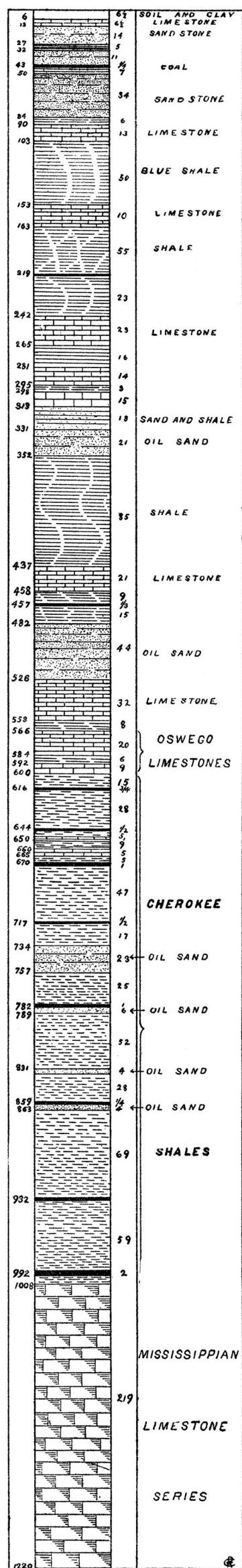


Figure 2.

NEODESHA WELL
Pierce Bro's Farm. G. & G.

