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DEEP WELL AT MORNING SUN

J. M. LINDLY

For several years, the town of Morning Sun had depended on shallow wells for the supply of water for its system of water works. This supply was found to be insufficient in later years, and in the fall of 1923 the drilling of a deep well was begun and was completed in the earlier part of 1924. The well was drilled by the McCarthy Well Company of St. Paul, Minnesota.

The following is the log of the well:

FORMATION	THICKNESS	DEPTH
Black earth	4 feet	4
Yellow clay	60	64
Limerock and shale	35	99
Sandrock	3	102
Limerock	63	165
Shale, "cavey"	283	448
Rock	10	458
Rock and shale, cavey	330	788
Rock	260	1048
Sandrock	3	1051
Shale	3	1054
Rock	38	1092
Sandrock	25	1117
Shale	24	1141
Sandrock	36	1177
Limerock	13	1190
Shale	15	1205

The depth of the well is 1205 feet. The St. Peter sandstone was struck at a depth of 1141 feet, which is two feet less than the depth of the sand at Winfield, a town about 11 miles west of Morning Sun. The thickness of the St. Peter sandstone at Morning Sun is 36 feet, at Winfield 37 feet, and at Brighton 35 feet. Brighton is about 25 miles west of Winfield and 36 miles west of Morning Sun. This famous sandstone, along this east and west line of thirty-six miles from Morning Sun to Brighton, shows a remarkable uniformity of thickness. At Morning Sun it was

found at a depth of 1141 feet below the surface of the ground; at Winfield 1143 feet; and at Brighton 1287 feet. Brighton has a little higher altitude than the other two towns which will explain the difference in depth below the surface of the ground at which this stratum of never-failing water supply is found.

WINFIELD.