

STATE GEOLOGICAL SURVEY OF KANSAS

LAWRENCE

RAYMOND C. MOORE
State Geologist

October 10, 1933

KENNETH K. LANDES
Assistant State Geologist

Mr. T. T. King
Colonial Hotel
Topeka, Kansas

Dear Sir:

I have examined samples of cuttings which you brought to my office yesterday stating that they came from the Wood No. 1 well drilled in section 21, T. 14 S., R. 15 E. and were obtained at a depth of 2690-2695 feet. When the cuttings were cleaned by the removal of a large amount of steel particles, I found them to consist dominantly of dolomite and subordinately of chert. Consequently, the rock from which the cuttings came is a cherty dolomite. The depth of the Wood No. 1 well would put it at about the horizon of the Viola lime. As this formation is a cherty dolomite in northern Kansas it is probable that the cuttings came from Viola limestone.

Please be sure to return one of the logs. We would prefer to receive the one containing the more detail. Also, we would appreciate your including the log data between the bottom of the hole as shown on the mimeographed log and the present depth.

Sample sacks are going forward under separate cover.

Very truly yours,

Assistant State Geologist.

SAMPLE RECORD

State Kansas Co. Osage Farm Woods No. 1 Sec. 21 Twp. 14 Rge. 15 E.

Location

Company Briggs et al Date Drilled

Elevation Total Depth

Douglas

- 375-400 Soft gray micaceous shale
- 400-403 Gray finely crystalline ls., abundant Fusulinids
- 403-475 Soft gray micaceous shale
- 475-490 Soft white finely crystalline limestone
- 490-495 Soft gray to black shale
- 495-510 Hard black, slightly micaceous shale
- 510-545 Soft gray, slightly micaceous shale
- 545-630 Soft gray, slightly micaceous shale
- 630-655 Moderate coarse angular sandstone weakly cemented with lime
- 655-690 Soft gray slightly micaceous shale
- 690-700 Fine angular sandstone, well cemented
- 700-790 Soft gray slightly micaceous shale

Lansing

- 790-800 Hard gray crystalline arenaceous limestone
- 800-805 Soft gray, slightly micaceous shale
- 805-820 Hard gray crystalline arenaceous limestone
- 820-840 Soft white finely crystalline limestone
- 840-845 Soft black shale
- 845-855 Hard white and gray crystalline limestone
- 855-865 Soft dark gray shale
- 865-877 Hard white and gray crystalline limestone
- 877-893 Soft white crystalline limestone, in part oolitic
- 893-903 Soft gray shale
- 903-915 Hard dark gray shale
- 915-970 Soft gray shale

Kansas City

- 970-985 Soft gray finely crystalline limestone
- 985-990 Soft gray shale
- 990-995 Soft crystalline buff to dark gray limestone
- 995-998 Soft crystalline buff to dark gray limestone
- 998-1005 Soft dark gray shale
- 1005 Brown mottled fossiliferous limestone
- 1005-1020 Mottled gray and white limestone (dark particles in limestone)
- 1020-1035 Soft dark gray shale
- 1045-1048 Soft dark gray shale
- 1048-1056 White to buff coarsely crystalline limestone
- 1056-1068 Soft greenish gray shale
- 1068-1084 Buff to gray (partially mottled) coarsely crystalline limestone
- 1084-1088 Soft dark gray shale
- 1088-1092 Brown and gray coarsely crystalline ls.
- 1092-1095 Dark gray to black fissile shale
- 1095-1106 Brown coarsely crystalline limestone, brown and gray chert.

Winterset.

SAMPLE RECORD

State Kansas Co. Osage Farm Woods No. 1 Sec. 21 Twp. 14 Rge. 15

Location

Company Date Drilled

Elevation Total Depth

- 1106-1120 White to buff finely crystalline limestone, hard white chert.
Winterset.
- 1120-1125 Dark gray to black shale.
- 1125-1155 White to buff coarsely crystalline limestone.
- 1155-1162 Dark gray to black shale.
- 1162-1178 White to buff coarsely crystalline limestone.

Marmaton

- 1178-1265 Hard gray shale
- 1265-1270 Dark gray to black shale
- 1270-1300 Medium dark gray shale
- 1300-1320 Soft white finely crystalline limestone
- 1320-1365 Soft gray shale
- 1365-1405 Dark gray to black shale
- 1405-1525 Dark gray shale
- 1525-1848 Dark gray shale and black shale.

Cherokee

Mississippi lime

- 1848- Hard white chert. White crystalline ls.
- 1850-1860 Hard white chert. White crystalline limestone.
- 1860-1875 White crystalline limestone, white chert. Oil show.
- 1875-1880 Soft white and buff coarsely crystalline ls, chert. Oil show.
- 1880-1895 White finely crystalline limestone, fine angular sand. Oil show.
- 1888-1900 White coarsely crystalline limestone, chert
- 1900-1975 Gray coarsely crystalline limestone, white chert.
- 1980-2040 White coarsely crystalline limestone, white chert
- 2040-2050 White coarsely crystalline limestone, white chert
- 2050-2055 Gray coarsely crystalline limestone, white chert.
- 2058- Hard white chert, brown dolomitic limestone.
- 2060-70 White cherty limestone, little sand
- 2070-2110 White and brown chert and limestone.
- 2110-2130 Missing
- 2130-2135 White coarsely crystalline limestone, white chert.
- 2135-2145 White coarsely crystalline limestone, little chert (cave)
- 2145-2155 White coarsely crystalline limestone, little chert (cave)
- 2155-2162 White coarsely crystalline limestone.
- 2162-2165 Missing
- 2165-2180 Gray shale, ls. and chert, cave
- 2180-2200 Gray shale, much ls. and chert.