

E. A. Koester
Derby Oil Co.
Conf.

SAMPLE RECORD

State Kansas Co. Russell Farm Miller No. 1 Sec. 30 Twp. 14 Rge. 13W

Location _____

Company Russell Oil Corp & Stearns Streeter Co.
Date Drilled _____

Elevation _____ Total Depth _____

Micro by E. A. K. 6-5-33.

- 2834-2844 Wh. xtlin. lime, 40%; gray clay, 60%.
2844-2854 White to buff, platy xtlin. lime, 50%; gray & red shale.
2854-2859 Red clay, 90%; lime, as above, 10%.
2859-2865 Reddish-gray clay.
2865-2882 Gray laminated shale and clay; some red clay.
2882-2887 Gray laminated shale.
2887-2890 Buff xtl. lime, 50%; gray lam. shale, 50%.
2890-2894 Buff calcitic slightly porous lime.
2894-2900 Lime, as above, 50%; gray shale, 50%.
2900-2906 Dull buff, porous oolitic lime, with some translucent splintery chert, 90%; gray shale, 10%.
2906-2908 Brown, saturated, very porous and oolitic, dolomitic lime, white and translucent chert; some buff non-saturated lime; some large oolites.
2908 equals 2904 Ctd.
2904-2908 Same, less saturated lime.
2908-2915 Light gray and translucent, xtl. lime; some gray shale.
2915-2917 Gray, thinly bedded, finely xtl. granular lime and translucent xtl.
2917-2922 Brown saturated and buff non-saturated, very porous & oolitic dolomitic lime.
2922-2928 Same; less saturation.
2928-2944 White, finely xtl. to dense, thinly bedded lime; some chert at 2937-2944.
2944-2950 Same; with black calcareous shale, 10%.
2950-2955 Black and gray shale, 75%; white and translucent, xtl. slightly cherty lime.
2955-2970 Shale, 50%; creamy dense and translucent xtl. lime, slightly porous and fossiliferous.
2970-2972 Buff dense to finely xtl. lime, partially porous and oolitic, 90%; dark shale, 10%.
2972-2976 Buff to brown, partially porous and oolitic, finely xtl. lime with about 25% white & translucent sharp chert; a little gray shale. Some of the lime is fairly well saturated.
2976-2980 Same; only 10% chert, partially oolitic; less saturation.
2980-2991 White very porous and oolitic cherty, finely xtl. lime. no saturation.
2991-3003 Same; dark gray to black shale, 50%.
3003-3012 Gray translucent xtl. non-porous lime, 60%; gray shale, 40%.
3012-3014 Same; lime, 35%; shale, 65%.
3014-3023 Gray translucent xtl. lime; a little white lime; a little white chert.
3023-3025 Gray lime, as above, 40%; black sharp chert, 60%.
3025-3028 Gray lime, as above, with a little white and black chert.
3028-3032 Gray lime as above, 5%; black shale, 95%.
3032-3039 White, very porous & sandy & oolitic xtl. lime, 40%; gray translucent, xtl. lime, 50%; gray shale, 10%.

#1 Miller, 30-14-13w. (cont'd).

3039-3046 Same; gray shale, 15%; very little gray xtn. lime.
3046-3053 Gray to black shale, 50%; gray & white lime, non-porous, 50%.
3053-3057 Red clay; some lime.
3057-3064 Red and gray clay, 60%; buff xtn. lime, 40%.
3064-3073 Same, 60%; buff and translucent xtn. lime, 40%.
3073-3075 Red and gray clay; a little lime.
3075-3090 Red and gray clay and shale, 60%; white & buff & translucent, xtn. & dense, lime. Probably much cavings.
Red chert and quartz sand grains @ 3081-3083.

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State Kansas Co. Russell Farm Miller No. 1 Sec. 30 Twp. 14 Rge. 13w.

Location

Company Stearns-Streeter & Hall Date Drilled

Elevation Total Depth

Sample determinations by E. A. Koester, 3-27-35.

- 311-3117 Gray fossiliferous clay-shale; some brown shale; trace of lime.
3117-3122 Gray, black, and brown shale; pyrite; fossils.
1322-3134 Gray crystalline to dense lime; 70% black micaceous laminated shale, 30%.
3134-3143 White and translucent, finely crystalline to dense lime.
3143-3150 Light gray micaceous and black shale, with ostracods, 60%; white finely crystalline lime, 40 %.
- 3150-3153 $\frac{1}{2}$ Same, with some brown lime.
3153 $\frac{1}{2}$ -3158 Medium to coarse, frosted and pitted, well rounded sand, 30%; white and buff, crystalline sandy lime, 40%; light gray micaceous and black shale, 30%.
3158-3160 Mostly gray shale cavings, with some lime and a little sand--poor sample.
3160-3161 $\frac{1}{2}$ Mostly coarse, some medium, rounded, pitted and frosted sand, some coarse reworked speckled quartzite, 30%; shale and lime cavings, 50%.