

E. A. Koester  
Derby Oil Co.  
Conf.

# SAMPLE RECORD

State Kansas Co. Russell Farm Mermis No. 4 Sec. 33 Twp. 13 Rge. 15w.

Location .....

Company Stearns-Streeter Co. et al Date Drilled .....

Elevation ..... Total Depth .....


Micro-examination by E. A. Koester, 4-10-31.

- 3048-3054 Buff sucrose crystalline lime.  
3054-3060 Same.  
3060-3071 Gray clay-shale, 70%; white dense to finely crystalline flakey lime.  
3071-3077 White porous oolitic, very cherty, crystalline lime, with some oolitic chert; some gray clay-shale.  
3077-3082 Lime, as above, 50%; Dark gray and black micaceous shale.  
3082-3087 Dark gray shale, 70%; buff translucent crystalline lime, non-oolitic, 30%.  
3087-3095 White crystalline lime; some gray clay-shale.  
3095-3103 Gray clay-shale, 60%; white crystalline porous oolitic lime.  
3103-3110 Same, less oolitic.  
3110-3116 Coarse gray clay-shale; a little lime.  
3116-3125 Same.  
3125-3140 Buff finely crystalline sucrose oolitic cherty lime, with some brown very porous oolitic sucrose lime; some gray shale.  
3140-3150 White porous oolitic slightly cherty sucrose crystalline lime; gray shale.  
3150-3158 Same, non-oolitic, with some pyrite.  
3158-3162 Same, oolitic and cherty.  
3162-3167 Same, non-oolitic.  
3167-3170 Brown crystalline lime (poor sample).  
3170-3178 Gray and white mottled cherty (black chert) crystalline lime; gray and black micaceous shale.  
3178-3187 Red and gray clay-shale, 60%; gray lime.  
3187-3197 Gray translucent crystalline lime, 80%; gray clay-shale.  
3197-3210 Blue-gray shale, 90%; rather coarse, buff finely crystalline sucrose lime.  
3210-3213 Red and gray shale, 60%; buff sucrose porous lime.  
3213-3220 Red and gray shale, 50%; Translucent porous sucrose crystalline lime.  
3220-3237 Coarse white finely crystalline and gray translucent dense lime, 60%; light gray and dark gray shale.  
3237-3247 Dark gray laminated shale; some lime, as above.  
3247-3254 Dark gray laminated shale and clay-shale; a little lime.  
3254-3258 Coarse white speckled finely crystalline lime, 50%; dark gray to black fissile shale.  
3258-3263 Gray coarse dense lime and white crystalline lime, 60%; dark gray shale.  
3263-3271 Dark gray clay-shale and fissile shale, 60%; white finely crystalline lime (poor sample).  
3271-3275 Dark gray-clay-shale; a little lime.

# 4 Mermis, Stearns-Streeter Co., 33-13-15w., Russell Co.

- 3275-3288 Light gray porous oolitic crystalline lime, 50%;  
dark gray shale.
- 3288-3291 Gray clay-shale; some lime.
- 3291-3296 Gray calcareous clay-shale; trace of coarse white  
crystalline sandy lime, with rounded sand grains  
embedded in a calcareous matrix; pyrite.
- 3296-3298 Red (iron-stained) arkosic sand, medium to coarse,  
frosted and water-worn, largest grains fairly well  
rounded; considerable feldspar and mica.
- 3298-3300 White, arkosic sand, medium, frosted and water-worn,  
considerable fine well rounded sand.

Total Depth 3300'. Put on pump. 300 bbls.