

E. A. Koester
Derby Oil Co.
Conf.

SAMPLE RECORD

State Kansas Co. Ellsworth Farm Kasper No. 1 Sec. 6 Twp. 14 Rge. 9W

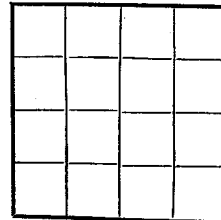
Location _____

Company Milton & Sites

Date Drilled _____

Elevation _____

Total Depth _____



Sample determination by E. A. Koester, Aug. 21, 1931

- 3200-3205 Gray-blue shale; trace of weathered chert.
3205-3210 Gray-blue shale, 50%; white chert; trace of lime and fine rounded sand.
3210-3217 Missing.
3217-3223 Yellow, red, and white chert; some medium rounded sand.
3223-3228 Blue-gray shale, 50%; Coarse white chert and tripoli.
3228-3237 Missing.
3237-3247 Coarse white chert and tripoli, 95%; gray shale, 5%.
3247-3250 Coarse white chert, 60%; gray shale, 40%.
3248-3253 Same.
3253-3258 Same; chert 40%; shale, 60%.
A trace of dolomite or dolomitic lime is found in all the above chert samples.
3258-3262 Missing.
3262-3286 Greenish-gray muddy shale; trace of chert.
3286-3315 Blue gray fissile shale; partially light greenish-gray.
3315-3335 Blue-gray fissile shale, 70%; light gray to white. finely crystalline dolomite; a trace white chert.
3335-3353 Missing.
3353-3358 Dolomite, as above, 50%; shale, 50%.
3358-3362 Missing.
3362-3370 Mostly dolomite and dolomitic lime, similar to above.
3370-3450 Light gray, gray, and translucent finely crystalline and crystalline lime; not so dolomitic as above; pyrite. The sample on first glance looks like gray shale.
3450-3472 White and translucent crystalline and finely crystalline limestone; some black limestone; some fine angular fresh chert; some fine angular and subrounded quartz.

The sample 3450-3472 is much whiter than the sample just above. It also appears to be more cherty.
A cherty zone appears between 3425 and 3450.

3482-3487 White crystal, partly porous lime, trace of chert.
3499-3503 White cryst. lime, 50%; gray dense dolomite, 50%; some chert and shale.
3503-3507 White cryst. lime, 50%; gray clay-shale, 50%.
3507-3523 White finely crystalline lime, with fine embedded sand, 50%; gray clay-shale, 50%.
3523-3527 Gray fissile shale, 60%; white cryst. lime, 40%; some fine sand.
3527-3531 Gray-green dolomitic shale, 90%; white cryst. lime, 10%.
3531-3543 Same, with very little lime; bryozoans.
3543-3547 Same; with med, to coarse, well rounded frosted sand, 5%.
3547-3550 Same; sand, as above, 30%; pyrite, bryozoans.
3550-3555 Same; sand, fine to coarse, as above, (pieces), 20%; some dol.
3555-3559 Same; trace of dolomite; pyrite, bryozoans.
3559-3567 Same, with 20% fine sand and dolomite, both well drilled up.
3567-3576 Fine; fine dolomite and sand, 30%; dark gray shale, 70%; trace of white vitreous chert.