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April, 1938.

Watchorn #2 Lemke,
SE NE SW, 15-11S-23W,
Elevation 2251'

15-195-01481

- Pennsylvanian conglomerate 3933-3958'
- 3933-3950 Stained chert conglomerate with interbedded red fissile clay shale.
- 3950-3955 Stained chert conglomerate with some white sugary lime, probably at the base.
- 3955-3958 Chert and red sandy clay. Probably residuum.

- Arbuckle Top 3958' Penetration 18' Subsea, minus 1707'
- 3958-3965 Dolomite, brown, fine to medium; with abundant quartzose oolitic chert. Apparently normal. *C. H. H.*
- 3965-3976 Lime, white, sugary, pure; with admixture of quartzose chert, red shales and very rare dolomite. This lime is interpreted as precipitated lime filling a solution cavity. This because it is overlain by a thin section of dolomite and because it contains some chert of the same type.

There is no evidence suggesting that the samples may be mixed up. Nor is it probable that dense white lime would cave unless it is highly nodular. Lime of this type is present between the conglomerate and the residuum, however. In a nearby test, in 14-11S-23W, both coal and dense lime are present in the conglomerate series. It is probable that the lime is of the fresh water type and that it may have been deposited before or immediately after the invasion of the sea.