Sayre #1 Ryersee O NE SE. 34-185-21W. Elevation 2201'

Mississippian Top 4270

Sub-sea, minus 2069

Unit 3 Unit 4 Kinderhook

4270-4380 4380-4445 4445-4455

110 651 10

Unit 4 is coarsely crystalline lime, white to brown. The division termed Kinderhook is mainly shale with traces of sand. This top of the Kinderhook is not necessarily accurate, but is a lithologic point.

Ordovician Top 4455 Viola

171*

Sub-sea, minus 2254

4455-4626 4455-4590 4590-4626

Dolomito, fine, brown; highly cherty. Dolomites and dense limes; with some glanconite and phosphate. A part of this may be equivalent to some of the Simpson of Oklahoma but as no shale member or sand layor is in avidence, it is probable that this unit is arrest than the shale phase of the Docorah further southeast. Economicall it does not rank with the shale from the standpoint of making a trap or seal for a reservoir.

D coorah Absent. See discussion of basal Viola.

Arbnokle Top 4626 Penetration 70 Sub-son, minus 2435' 4626-46964 Miller-Purcell dolomite.

The samples, although rotary, are very good. Comparison of residues with those from Berndall #1 Lank, 35-165-21W, show a general similarity. T opaque cherts. It is now doubtful if 4625' in 35-188-21% represents the top of the Cotter.

just below 4555 in the Barnsdell al Lank are green shales and sands which belong with the Miller-Purcell. The break is above these shales es the personanthia that toprettappears through the that had been from nearly the same. In other words, the Sayre test goes out of Viola into slightly scalped Post-Cottor and the Barnsdall test goes from the same Viola into a full section of post-Cotter dolomite which has some shale and sand above. The point 4626' in the Sayre test may be the same Arbuckle wakks as 4625' in the Barnedall test.