

March, 1936.

Wolf Creek #1 Schmidtberger, $\frac{1}{2}$
SE NE SE, 24-12S-16W, $\frac{1}{2}$
Elevation 1876' $\frac{1}{2}$ P

Pennsylvanian conglomerate 3397-3510' See Remarks.
3397-3403 Sandy zone in base of lime. Also fine sand in
thin layers in clay shale.
~~3403~~-3415 Stained chert conglomerate. Some Arbuckle chert.
3415-3477 Chert, partially stained by weathered. Abundant
siliceous red shale, dark red sandy clay, and
white and red mottled clay. Most of the chert
is of type found in Viola residuum in 10S-16W.
3477-3500 Chert, mainly of Viola type. Shale green to ma-
roon with rare included sand. Shale gray green,
slightly sandy. Rare loose sand.
3500-3510 Chert and shale as above. Also rare oolitic
Arbuckle chert.

Remarks: For purposes of mapping the following interpretation
is preferred, although the evidence for it does not amount to proof:

3397-3415	Penn. Conglomerate.	
3415-3477	Viola residuum	Top -1539'
3477-3500	Decorah shale, altered.	
3500-3510	Arbuckle residuum.	Top -1624'

Increasing experience with the Decorah indicates that leached
Decorah shale slakes readily and goes to mud in either a cable
tool or rotary hole. The gray shale shown in the above rotary
samples appears to be leached Decorah. Since being washed and
thoroughly dried it tends to be hard and does not slake. Possibly
leached Decorah in place has some of the characteristics of fireclay.