

R. A. Carmody

January, 1941

National Refining, No. 1 Bemis
SE SW 16-11S-17W

Elevation 1817 feet

Pennsylvanian basal conglomerate top? (No samples available above 3348 feet.)

3348-3366 feet Limestone, part imbedded with medium to coarse rounded sand grains. Some red and various-colored chert. Some red silty micaceous shale. Some fine white sand. Probably land wash, reworked by Marmaton sea.

3366-3405 feet Red and various-colored clay, becoming increasingly sandy toward base. This clay is of a type generally found present in sinkholes.

3405-3433 feet Chert, white, weathered, and yellow, flinty, fossiliferous. This chert, probably derived from Mississippian, appears clean enough to be residuum in place, but is also similar to the unstained or milky white chert commonly found at the base of some of the deepest sinkholes of this area in contact with the Arbuckle.

3433-3443 feet Total Depth. No samples.

January, 1937.

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National Refining #1 Bemis,
SE SE SW, 16-11S-17W,
Elevation 1817'

Pennsylvanian conglomerate 3548-3568'

3548-3568 Stained chert and sand conglomerate mixed with
considerable brown and gray lime.

"Hadley" formation, questionable Miss. or lower Penn. 3568-3405'

3568-3405 Clays; at top maroon to dark red with green mot-
tling, toward base gray green, gray, white, and
pinkish. Some stained chert near base but it
is questionable whether this is in place or caving.

Viola residuum 3405-3433'

3405-3433 Chert, fresh to weathered, in part brown; with some
crystalline quartz and, toward the base, some fine
to medium quartzose sand. This sand may mark the
top of the Decorah.

Arbuckle was not reached. It could not be expected higher than 3460'
or -1643'