

January, 1937.

Morgan and Flynn #2 Giseck,
SE corner, 25-183-16th,
Elevation 1971'

Pennsylvanian conglomerate Base 3580'
~~2512-3528~~ No samples. Top conglomerate in this interval.
3533-3551
3551-3553 Clay shales, slightly sandy.
3553-3565 No samples.
3565-3572 Sand, coarse, with stained chert. Also sandy
 clay shales and pale green sandy shale.
3572-3575 Clay shales, mottled red and green.
3575-3580 Sand, fine to coarse, in part consolidated.

Ordovician Top 3580' Sub-sea, minus 1609'
Arbuckle " " Penetration 39' " " " "
3580-3590 Sand and dolomite. One sample runs 41% dolomite.
3590-3609 $\frac{1}{2}$ Sand, quartzose, in part consolidated.
3609 $\frac{1}{2}$ -3619 No samples.
 This is Pre-Cotter and is either Everleigh or
 basal sand.

This well has unquestionable Arbuckle. In most of the wells in the Otis area the differentiation of Pennsylvanian and Arbuckle sand is difficult but this well shows definite dolomite above the pure sand. It shows that at least 29' of pure sand is present. Updip wells which have questionable Arbuckle sand are probably bottomed in this same sand, with Pennsylvanian sand lying across the truncated edge.