

March, 1940.

Alpine #1 Andrea,
C S $\frac{1}{2}$ SW NE, 8-20S-11W,
Elevation 1779'

Pennsylvanian conglomerate 3327-3330'
3327-3330 Stained chert and clay shale.

Sinkhole filling 3330-3395'
3330-3395 Chert of Viola type, pink and somewhat weathered
at top, relatively fresh below.

No Decorah nor Arbuckle was reached. The top
of Arbuckle is below -1616'
No estimate on restored top of Arbuckle.
Map as Cotter.