

April, 1934.

Empire #1 Grist, ✓ ?
SE/c NE/4, 30-9S-14W,
Elevation 1985'

ALL DETERMINATIONS TENTATIVE AND SUBJECT TO CHANGE.

Pennsylvanian conglomerate 3640-3718'

3640-3718 Sand, clay shale, and stained chert. Chert does
not appear to be Arbuckle.

Questionable Kinderhook 3718-3730'

3718-3730 Clays, chocolate, yellow, maroon, green.

Questionable Viola 3730-3753'

3730-3753 White chert, somewhat weathered, with angular
quartz which appears to be fragments of vug
crystals rather than sand. This material
looks like a residual zone but the character
of the chert does not serve to identify it as
either Miss. or Viola. The chert probably is
not Arbuckle. The essential thing about this
zone is that it appears to be residual rather
than a conglomerate.

Unidentified. May be Decorah. 3753-3775'

3753-3775 Shale, gray, dark gray; with blue and gray cherts.
The shale is somewhat carbonaceous and might be
Pennsylvanian, Kinderhook, or even Decorah. The
chert suggests basal Trenton or Upper Decorah but
the evidence does not amount to proof.

3765-3775 Clay shale, maroon and green. Might be Penn.,
Kinderhook, or Decorah.

The above well is being mapped as reaching unidentified pre-Penn.
rather than as bottomed in the Penn. conglomerate.
This does not by any means settle the correlation and this well,
together with several near it, should be examined critically for
evidences of a Kansas City conglomerate lying on an eroded surface
of Cherokee age.

R. A. Carmody

May, 1941.

Cities Service (Empire), No. 1 Crist
SE NE 30-9S-14W

Elevation 1984 feet

Pennsylvanian

Base Kansas City 3500 feet

Pennsylvanian basal conglomerate top 3645 feet

3645-3732 feet Red stained chert. Sand. Various-colored sandy
clay.

Ordovician top 3732 feet

Subsea -1748 feet

Trenton (Viola-Galena) top 3732 feet

Subsea -1748 feet

3732-3755 feet White, fresh, flinty chert, part slightly stained
pink and yellow. This interval may be reworked,
but is interpreted as residuum.

3755-3775 feet TD. Chert, steely gray, fresh, flinty, with dark
gray markings--graptolites? Much shale cavings--
believed to be Pennsylvanian.

This replaces sheet of March, 1941.