

October 1944

Sinclair #4 Mary Prusa
Section 20-16S-11W, C NL SW SE
Elev. 1843'

Pennsylvanian Conglomerate

3272-3324 Scout top of "conglomerate sand" at 3272' (-1429').
No samples above 3325'. This interval probably
includes considerable Arbuckle residuum.

Arbuckle Top 3324' (scout) Penetration 22' Subsea -1481'

Pre Cotter 3324'- 3346'

3325-3330 Rare dolomite. Mostly cement.
3330-3335 Sandy buff-white medium dolomite with 30% included re-
crystallized sand, mostly fine. Some crystalline
quartz. Boyce.
3335-3340 No samples.
3340-3346 Dolomite as above with white coarsely crystalline
dolomite, sand free to sandy with coarse grains.
10% green clay and 10% varied cherts suggesting that
there is a solution zone along the Pre-Cambrian
contact. Boyce. Possibly Pre Boyce.

Pre-Cambrian Top 3346' Penetration 237' Subsea -1503'

3346-3450 Schistose metamorphic rock injected by pegmatite.
Includes light colored mica schist, quartzose mica
schist, and clayey mica schist, all with muscovite
mica. Abundant pegmatitic material present in cable
tool cuttings as large (3 mm) cleavage fragments of
pink orthoclase feldspar, light brown muscovite mica
in books 5mm in diameter, and occasional large
(2½ mm) fragments of clear quartz showing feldspar
contacts. The pegmatitic material appears to be
injected along the schistosity and is now present as
stringers and veins, and perhaps as dikes.
3450-3583 Biotitic schistose rock with less pegmatite. Light
colored granular friable rock with quartz, unidentified
light metamorphic minerals, and rare accessory garnet.
Distinct schistosity is imparted by abundant biotite.
The top is gradational into the schists above. The
The pegmatitic material is probably present as dikes
since the contacts are sharper than above. For example
the 2' sample from 3544-3546' includes abundant
pegmatitic material in contrast to the samples above
and below. This biotitic schistose rock could be either
a metamorphosed sedimentary or igneous rock. The
variable lithologic character and soft or friable
character of this metamorphic series accounts for the
penetration of 237' with cable tools.

Remarks: Salt water disposal well. Took 1728 BWPD on vacuum, August 26, 1942.

RFW:HL