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December, 1939.

Hanna #1 Luse,
SE SE SW, 21-20S-13W,
Elevation 1884'.

Pennsylvanian conglomerate, 3493'-3511'

3493-3511 Vari-colored clay shales with included sand.
Also small lime nodules, in part sandy.

Arbuckle residuum 3511-3535' 24'

3511-3535 Red clay and deeply stained red chert at top;
grades down to mottled red and green sandy
clay and partially stained chert. Cotter
residuum.

Arbuckle Top 3535' Penetration 43' Sub-sea, minus 1651'.

3535-3578 Mainly Cotter residuum with a small amount of
badly weathered dolomite. Hole also caving
considerably. This is in the middle part of
the Cotter.

Restored top impossible to estimate as it is not
known how much Cotter was present. Certainly
not lower than the top of residuum, 3511' or
-1627'. May be as high as -1527'.

EXHIBIT
John Edwards
BOND