

August, 1936.

→ Wolf Creek #1 Walter,
SE SW SE, 14-13S-17W,
Elevation 1998'

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Pennsylvanian conglomerate 3537-3540'
3537-3540 Clay shales with rare limes. Limes have
some included sand grains.

Ordovician Top 3540' Sub-sea, minus 1542'
Decorah 3540-3543'
3540-3543 Shale, red and green; with rare included smooth
sand grains. This is undoubtedly Decorah shale
but on the evidence of the shale alone it would
be uncertain as to whether it was in place or
slumped into a crevice. The Arbuckle sequence
is complete, which indicates the Decorah is in
place.

Arbuckle Top 3543' Penetration 161' Sub-sea minus 1545'
3543-3610 Miller-Purcell dolomite. Exact Cotter top may
have to be modified.
3610-3700 Cotter dolomite. Much of it pink; with the
normally pale green shales changed to pink
and red. This is probably a result of Pre-
Purcell erosion and exposure but may be due
to weathering in immediate pre-Pennsylvanian
time-deepseated weathering from ground water.
3700-3704* Sand. 95% insoluble. The Cotter contains no
pure, friable, sand of this type in any of the
wells so far studied. Sandy layers are pres-
ent at several horizons but they seldom show
more than 20-30% of the total sample. Thin
layers of pure sand in the Cotter are normally
highly quartzitic.

*This sand does not fit into the Cotter sequence as known.
It is not of the type normal to the Cotter.
The Cotter sequence is normal right down to the top of the sand.
The sand is not typical of Pre-Cotter.
The top of the Pre-Cotter, let alone a Pre-Cotter sand, would not
be expected at that point.
Hence it is somewhat doubtful if sand was drilled from 3700-3704'

Note:

I contacted Ebban Pyle, he says sand was there!

ML

VBC



February, 1941

Wolf Creek, No. 1 Walters
SE SW SE 14-13S-17W

Elevation 1998 feet

Cable-tool dry hole.

Ordovician

Simpson 3540-3543 feet. Green fissile shale, slightly sandy. Thin Pennsylvanian basal conglomerate cover.

Arbuckle top 3543 feet, or 1545 feet subsea. Penetration 159 feet.

3543-3587 feet Miller-Purcell, undifferentiated. Sander pay zone in interval between 3565 and 3575 feet. (Possibility this zone represents Cotter CN ?)

3587-3704 feet Cotter. Starts in CM zone as above differentiated. Top CI 3657 feet. Bottomed at 3704 feet in 4-foot water-bearing slightly cherty sandstone, which appears to correlate with sand in CF zone in Marathon, No. 1 Kline, 19-14S-24W.

117'

Estimated top CE 3718 feet; top pre-Cotter 3825 feet.

FBC

3704
3587

Cott 117' +