

To replace sheet by Littlefield, December 1933

September 1944

Magnolia #1 Andrea
Section 7-17S-10W, NW SW

Cable tools

Elev. 1926' 1929DF ^{has} (Printed)

Pennsylvanian Conglomerate 3343'- 3348'

3343-3348 Sandy buff limestone. Included coarse sand grains and very rare worn chert pebbles. Marine conglomerate.

Residuum of Arbuckle Top 3348' Thickness 40' Subsea -1422'

Cotter Residuum 3348'- 3380'

3348-3357 Red clay and chert. White flinty cherts with large solid oolites. Shows contacts with red siliceous clay mottled white.

3357-3373 Dull white cherts, milky to opaque, in part doloclastic, with siliceous red and white clay contacts.

3373-3378 Quartzose chert, very oolitic.

3378-3380 Very sandy red clay. Included sand grains are coarse and medium.

Pre Cotter Residuum 3380'- 3388'

3380-3382 Sandy clay, Red residual clay with included fragments of bright green clay and with included sand grains.

3382-3388 Red clay and chert. Buff compact quartzose to quartzitic, not oolitic. Upper Post Boyce type of chert.

Pre Cambrian Top 3388' Penetration 6'

Subsea -1462'

PE 3388-3391 Coarse granular quartzite, in part with small black inclusions some of which are oxidized red. Show of oil.

3391-3394 Quartzite, ground up. Increase in oil.

Remarks: Arbuckle dolomite of Upper Post Boyce age overlapped Pre Cambrian quartzite at this location. The Arbuckle section is now completely leached to residuum. The Cotter-Pre Cotter contact is well shown in the residuum at 3380' or -1454'. The restored top of the Pre Cotter is probably 20' or so higher than this.

RFW:HL

3388
1929
-1459

829502

December 1933.

Magnolia #1 Andrea,
NW SW, 7-178-10W.
Elevation 1926'

Pennsylvanian conglomerate. 3343-3388'

3343-3348 Nodular limes, clay shales, and sand.

3348-3388 Chert and red clay. This material appears to be residual rather than a conglomerate. The basal part contains some quartzite which may be reworked detrital fragments but is more probably residual material from quartzitic layers which were present in dolomite which has been dissolved. Some of the cherts are Purcell in type.

Ordovician Top 3388' Sub-sea, minus 1462'

Basal sand Top 3388' Penetration 6'. Sub-sea, minus 1462'.

3388-3394 Quartzite. Probably Cambro-Ordovician. Show of oil.

The presence of Purcell cherts in the conglomerate or residual zone suggests that Purcell was deposited over this area, overlapping older Arbuckle and separated from it by an erosional and structural break.