

September 1944

Bridgeport #1 Spilker "B"
Section 1-139-21W, C WL NE NW
Elev. 2162'

Rotary

Pennsylvanian Conglomerate 3822-3842'

3822-3840 Chert and some sand. Pink quartzose and flinty cherts with a few large oolites.

3840-3841 Sandy residual clay. Core chip. Top of residuum not known.

Arbuckle Top 3842' Penetration 78'

Subsea -1660'

Pre Cotter-Pre Weigel member 3842'- 3876'

3842-3847 Dolomite, buff, medium to coarsely crystalline with doloclastic white siliceous clay. Very pyritic at the base. 4 core chips. Possibly Weigel.

3847-3849 Residual clay. Buff sandy clay. No dolomite. 2 core chips.

3849-3850 Slickensided dark clay. No dolomite. Core chip.

3850-3851 Slickensided dolomite, buff, medium crystalline. Core chip.

3851-3876 Dolomite, buff, medium crystalline, pure except for about 1% doloclastic clay throughout and 5% coarse sand grains from 3860-3861', 3864-3865', 3869-3870', suggesting cyclic deposition. Green clay in the bottom 2 feet. Some low vuggy and inter-crystalline porosity. 24 core chips.

Everleigh-Reagan 3876'- 3920'

3876-3879 Sandy dolomite. Buff dolomite with about 40% included fine sand grains. 3 core chips.

3879-3897 Sand and dolomitic sand. Poor rotary samples.

3897-3920 Sand and dolomitic sand. Loose coarse rounded sand grains in rotary samples. Reported as Reagan.

Pre Cambrian Top 3920' Penetration 8'

Subsea -1738'

3920-3928 Pink granite, weathered at the top.

Remarks: The short Arbuckle section, 78' to the Pre Cambrian, was predicted by Jack Heathman, then geologist for Bridgeport, who had worked out the local Arbuckle section in the Ellis Field and found a northeast dip in that field, a reversal of the regional dip. (See Cole's letter #5, 1944.) A Pre Cambrian test $3\frac{1}{2}$ miles NW in Section 28-129-21W had 302 feet of Arbuckle and a Pre Cambrian test 4 miles SW had 525' of Arbuckle, suggesting a NW-SE fault to the west of the #1 Spilker "B". The presence of slickensided dark clay and slickensided dolomite in core chips from 3849-3851' is of interest in this connection.

RFW:HL