

June, 1942

Phillips, # 1 Down
NE SE NW, 30-13S-14W
Elev. 1836' ² (Printed)

Cable tools
Salt water disposal

PE

Pennsylvanian Conglomerate 3289'-3294'

3289-3294 Red and buff limestone, part nodular, and dark clay shales, red and gray. Rare sand grains in limestone. Few inches of chert conglomerate at base. Marine conglomerate.

Arbuckle Top 3294' Penetration 291' Subsea -1458'

Cotter 3294'-3343' Thickness 49'

3294-3320 Dolomite, white, medium to coarse, oilstained at top. About 5 % chert, part oolitic. Penn. ls. and shale make bulk of samples. At 3320' HFW --bailer could not be run below 3313' because of cavings.

3320-3328 No samples

3328-3343 Dolomite, light brown, medium, 30% chert, part oolitic.

Pre Cotter 3343'-3585' Thickness 242' Top, Subsea -1507'

Post Boyce 3343'-3398' " 55'

3342-3345 No sample

3345-3363 Dolomite, white, coarsely crystalline, finely ground.

3363-3369 Dolomite, white, fine to dense, sugary.

3369-3398 Dolomite, white, coarse, finely ground. 20% fine sand in samples.

Boyce 3398'-3436' Thickness 38'

3398-3415 Finely ground dolomite and sand. Rare red grains, some coarse sand. Rare sandy quartzose chert with poor oolites.

3415-3423 Finely ground dolomite, sandy dolomite, and sand. Rare silicified sand, red grains, hollow poor oolites--good Boyce criterion.

3423-3429 No samples

3429-3436 Dolomite, sandy dolomite, sand.

Pre-Boyce--Post Everleigh 3436'-3500' Thickness 64'

3436-3453 Dolomite, white to light brown, fine to medium, low residue.

3453-3460 No samples

3460-3471 Finely ground white dolomite, medium. Low residue.

3471-3500 No samples.

Everleigh-Reagan 3500'-3585' Thickness 85'

3500-3507 Finely ground sand and dolomitic sand. Sand grains largely medium, recrystallized. Rare silicified sand indicates actual top of Everleigh close to 3500'.

3507-3555 Sand, medium, loose, part faceted--recrystallized. Everleigh.

3555-3585 Sand, coarse and very coarse, rounded grains, recrystallized. Clear grains with black inclusions.

Pre Cambrian Top 3585' Penetration 39' Subsea -1749'
3585-3624 TD Granite, fresh and weathered. Finely ground.

Remarks: This test is not normal in that it has only 55' of Post Boyce section instead of the 80'-90' expected in this area and in that 49' of Cotter is present although the test is well within a Pre Cotter area. Tests in all directions have found Pre Cotter Arbuckle under Pennsylvanian. A possible explanation is that with the collapse of a cavern in the Post Boyce dolomite, Cotter material was lowered below the general erosion level and preserved. Many tests, including one in C SW SE 22-13S-14W, show solution of Post Boyce dolomite under Cotter cover.

RFW & ML