

Fulton County  
Chesterfield Township  
Section 34 (NE $\frac{1}{4}$ )

Lox Inc  
#1 Willeman  
Permit No. 41  
Sample No. 2236  
Elevation 812 (KB) feet

Depth (ft)

- 2380 - 2385 Shale, black, silty, very slightly calcareous, pyrite
- 2385 - 2390 Shale as above. Dolomite, light-brown- to brown, medium to coarsely crystalline, clear crystalline dolomite apparently filling vugs, pelmatozoan columnals, smooth white chert as isolated rounded masses 0.1 - 0.5 mm, slightly calcareous, part with porous rhombic texture, some pores coated black, pyrite, silty. Shale, reddish- brown to dark-brown, containing large pieces of dolomite, fossil fragments, and massive, cubic or pellet shaped pyrite, soft spongy brown residue in acid, 10 to 12%. TRENTON at 2400 feet (GRN)
- 2390 - 2395 Dolomite as above, silty in part. Shale as above, reddish-brown- to brown, 5%
- 2395 - 2400 Dolomite as above. Shale as above, 1% probably cavings
- 2400 - 2405 Limestone, light-brown- to brown, mottled white, fine- to medium-grained, pelmatozoans and scattered brachiopods, very dolomitic with up to 25 to 30% dolomite in part, argillaceous. Dolomite as above, 20 to 25%, very calcareous
- 2405 - 2410 Limestone as above, pearly shell material. Dolomite as above, 5 to 10%
- 2410 - 2415 No samples
- 2415 - 2420 Limestone as above, very dolomitic. Cavings of gray and green shale and surface pebbles very abundant
- 2420 - 2425 Limestone as above, Surface material very abundant
- 2425 - 2430 Limestone as above, Surface material very abundant
- 2430 - 2435 Limestone as above. Surface material very abundant

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- 2435 - 2440 Limestone as above, apparently much dark-brown and fine; surface material makes determination difficult
- 2440 - 2445 Limestone as above? sample is mostly surface rocks and gray and greenish-gray shale
- 2445 - 2450 Limestone as above? sample mostly surface rocks, shale and dolomite cavings
- 2450 - 2455 Limestone as above? Mostly green to gray shale and dolomite which are probably cavings. Surface rocks abundant
- 2455 - 2460 Predominantly light-brown to brown, mottled white dolomite and gray to green shale. Some limestone as above, surface rocks abundant
- 2460 - 2465 No samples
- 2465 - 2470 Limestone as above, argillaceous. Dolomite as above, 5 to 10%. Green to gray shale and surface rocks abundant
- 2470 - 2475 Limestone as above, argillaceous. Surface rocks
- 2475 - 2510 No samples
- 2510 - 2515 Limestone, light-brown- to dark-brown, very fine-to coarse-grained; in part light-brown, coarse-grained fossil fragments with some clear crystalline calcite cement dolomitic; in part brown to dark-brown, very fine- to fine-grained containing large fragments of brachiopods and pelmatozoans, argillaceous and organic surface rocks
- 2515 - 2520 Sample almost entirely surface rocks and gray to green shale cavings
- 2520 - 2525 Limestone as above, much chalky appearing limestone and pearly shell material
- 2525 - 2530 Limestone as above, fossils in fine-grained matrix containing 10 to 20% dolomite rhombs
- 2530 - 2535 Limestone as above, chalky limestone abundant

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2535 - 2540	Limestone as above, chalky limestone
2540 - 2545	Limestone as above, chalky limestone
2545 - 2550	Limestone as above, chalky limestone, bryozoans, pyrite
2550 - 2555	Limestone as above, chalky
2555 - 2560	Limestone as above, chalky limestone abundant
2560 - 2565	Limestone as above, chalky limestone, bryozoans
2565 - 2570	Limestone as above, fossils broken in fine matrix
2570 - 2575	Limestone as above, bryozoans, chalky limestone
2575 - 2580	Limestone as above, chalky limestone, bryozoans
2580 - 2585	Limestone as above, calcite cemented fossil debris most abundant. Surface rocks and cavings although present in most samples, are very numerous
2585 - 2590	Limestone as above, predominantly coarse to very coarse calcite cemented fossil debris, litte dark-brown dense. Surface rocks abundant
2590 - 2595	Limestone as above, surface rocks
2595 - 2600	Limestone as above, bryozoans, surface rocks
2600 - 2605	Limestone as above, bryozoans
2605 - 2610	Limestone as above, but containing much argillaceous appearing or dark-brown dense
2610 - 2615	Limestone as above
2615 - 2620	Limestone as above, predominantly dark-brown dense or argillaceous, bryozoans
2620 - 2625	Limestone as above
2625 - 2630	Limestone as above
2630 - 2635	Limestone as above, part calcite cemented
2635 - 2640	Limestone as above, large part calcite cemented

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- 2640 - 2645 Limestone as above, predominantly clear calcite cemented, bryozoans
- 2645 - 2650 Limestone as above, bryozoans
- 2650 - 2655 Limestone as above. Chert, light-gray to light-brown, speckled or mottled brown; small amount white, smooth; 1%
- 2655 - 2660 Limestone as above, abundant dark-gray to black, organic and argillaceous, bryozoans. Chert as above, trace
- 2660 - 2665 Limestone as above, predominantly medium to coarse fossil debris with clear calcite cement, containing flakes and patches of black organic appearing material, bryozoans, Chert, black, calcareous, containing veins of clear light-blue chert, fine pyrite, 12 to 15%. Shale, black, shiny, 2 to 3%
- 2665 - 2670 Limestone as above. Chert, brown to red- to brown, slightly calcareous granular appearing, part rough and dull when dry, 5 to 6%. Chert as above, black, 5 to 6%. Chert, light-gray to light-brown, speckled or mottled brown, part containing calcareous inclusions, 4 to 5%. Shale as above, black, 1%
- 2670 - 2675 Limestone as above. Chert, dark brown, smooth, resonous luster when dry, appearing granular when wet; part light-gray to light brown as above, 15 to 20%. Chert as above, black, 1 to 2%. Chert as above, brown to red to brown, 1%. Shale as above, black, 1%
- 2675 - 2680 Limestone as above, large part dark-brown, dense. Chert as above, dark brown, 12 to 15%. Chert as above, black, 2 to 3%. Shale as above, black, 2 to 3%. Chert as above, brown to red to brown, 1%
- 2680 - 2685 Limestone, light-brown to buff, predominantly microgranular to very fine-grained, part lithographic, part clear calcite cemented, rounded interclasts of lithographic limestone up to 0.4 mm, thin

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partings of gray pyritic shale, slightly dolomitic. Chert as above, dark brown, 3 to 4%. Chert as above, black, 2 to 3%.

BLACK RIVER at 2678 feet (GRN)

2685 - 2690	Limestone as above
2690 - 2695	Limestone as above
2695 - 2700	Limestone as above
2700 - 2705	Limestone as above. Chert, light-brown, granular appearing, 1%
2705 - 2710	Limestone as above. Chert as above, 1%
2710 - 2715	Limestone as above, part dark brown, very fine-grained. Chert as above, 1%
2715 - 2720	Limestone as above, part dark brown
2720 - 2725	Limestone as above, part dark brown

By R. Stieglitz

5-1973

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