

Williams County
Florence Township
Section 17 (NE $\frac{1}{4}$)

Sohio Petroleum
#1 Lautzenheiser
Permit No. 47
Sample No. 2822
Elevation (KB) 917 feet

Depth (ft)

Silurian at 880 feet

- 880 - 900 Dolomite, very light- and light-brown, microcrystalline (re-crystallized in part), probably with scattered pellets
- 900 - 920 Dolomite, light-gray to brownish-gray, very light- and light-brown, microcrystalline. Chert, white, trace
- 920 - 930 Dolomite, very light- to medium-brown, slightly grayish in part, microcrystalline. Chert, white, trace; partings, black, trace
- 930 - 940 Dolomite as above; partings, black, heavy trace
- 940 - 950 No samples
- 950 - 960 Dolomite, light- and medium-gray, greenish-gray, microcrystalline, argillaceous. Dolomite, light-brown, grayish-brown, microcrystalline
E UNIT (check GR)
- 960 - 970 Dolomite, light- to dark-brown, microcrystalline (with light-gray schlieren); partings, very dark brown, heavy trace
- 970 - 980 No samples
- 980 - 990 Dolomite, light-brown, grayish-brown, microcrystalline. Dolomite, light-gray, microcrystalline; partings as above, heavy trace
- 990 - 1010 Dolomite, very light-brown and yellowish-brown-to medium-brown, grayish in part, microcrystalline; partings, black, trace
- 1010 - 1020 Dolomite as above, predominantly very light-yellowish-brown
- 1020 - 1030 Dolomite, light- and medium-brown, microcrystalline
- 1030 - 1050 Dolomite as above, grayish in part; partings, dark brown, black, trace
- 1050 - 1070 Dolomite, very light- and light-brown, grayish-brown, microcrystalline

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- 1070 - 1080 Dolomite, light- and medium-brown, mottled yellow, microcrystalline and very finely crystalline (recrystallized?); fair vuggy and pinpoint porosity; selenite and dolomite rhombs, trace
- 1080 - 1100 Dolomite as above, sparry in part, sulphur, trace from 1090 feet to 1100 feet
- 1100 - 1120 Dolomite, light- to dark-brown, mottled yellow in part, microcrystalline; poor vuggy porosity; sparry
- 1120 - 1130 Dolomite, light-brown, microcrystalline and very finely crystalline (recrystallized)
- 1130 - 1160 Dolomite as above. Dolomite, light-grayish-brown, microcrystalline
- 1160 - 1170 Dolomite, very light- to medium-brown, microcrystalline and very finely crystalline (recrystallized), sparry; poor vuggy porosity; NRS. Dolomite, light- and medium-grayish-brown, brownish-gray, microcrystalline, slightly argillaceous in part, laminated (TYMOCHTEE??)
- 1170 - 1190 As above; partings, black, trace
- 1190 - 1240 Dolomite, light- and medium-brown, microcrystalline and very finely crystalline (recrystallized), sparry; NRS. GREENFIELD FORMATION? at 1190 feet
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- 1240 - 1250 Dolomite, very light- and light-brown, light-grayish-brown, gray, microcrystalline to medium crystalline (recrystallized); poor pinpoint and vuggy porosity; NRS
- 1250 - 1260 Dolomite, very light-brown, microcrystalline and very finely crystalline (recrystallized)
- 1260 - 1270 Dolomite as above, very light- and light-brown, laminated (stromatolitic?) in part

- 1270 - 1280 Dolomite, very light- and light-gray, very light-brown, mottled light-brown, microcrystalline to finely crystalline (recrystallized), laminated (stromatolitic?), probably granular in part; poor vuggy porosity; NRS; sulphur, trace
- 1280 - 1290 Dolomite, as above, mostly stained dark brown
- 1290 - 1310 Dolomite, predominantly dark brown, microcrystalline and very finely crystalline (recrystallized), pelletal? in part, sparry. Chert, very light-brown, chalky, trace
- 1310 - 1320 Dolomite, dark-brown, very light-gray, microcrystalline and very finely crystalline (recrystallized), sucrosic in part
- 1320 - 1340 Dolomite, very light-gray, grayish-brown, light-gray, microcrystalline and very finely crystalline (recrystallized)
- 1340 - 1360 Dolomite as above, probably granular in part, laminated, sucrosic in part
- 1360 - 1380 Dolomite, very light-gray, microcrystalline and very finely crystalline (recrystallized); very fine sample. LOCKPORT GROUP (check GR)
- 1380 - 1540 Dolomite as above, very finely to coarsely crystalline, sucrosic in part
- 1540 - 1550 Dolomite, medium-brown, mottled very light-gray, microcrystalline to medium crystalline (recrystallized), bioclastic or fossiliferous, slightly pyritic. BASE LOCKPORT GROUP (check GR)
- 1550 - 1560 Dolomite as above, very light- and light-gray, brown, Shale, light-green, medium-gray, trace
- 1560 - 1580 As above; dolomite in part medium-grained, slightly cherty
- 1580 - 1590 Dolomite, very light- to medium-brown, microcrystalline to medium crystalline (recrystallized), cherty in part. Dolomite, light- and medium-brownish-gray, micrycrystalline, argillaceous, grading into shale
- 1590 - 1600 Dolomite, very light- and light-brown, microcrystalline (recrystallized),

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- Chert, cream-colored, 10%. Shale, dark brown, trace
- 1600 - 1610 Dolomite as above, 40%. Chert as above, 60%
- 1610 - 1620 Dolomite, very light- to medium-brown, microcrystalline to finely crystalline, argillaceous in part. Chert, white, light- and medium-gray, very light-brown, heavy trace
- 1620 - 1640 Dolomite, very light- to medium-brown, microcrystalline to medium crystalline (recrystallized). Chert, white, cream-colored, heavy trace. BRASSFIELD FORMATION?
- 1640 - 1650 Dolomite as above. Chert as above, 5%
- 1650 - 1660 Dolomite, very light-gray, brown, microcrystalline to medium crystalline (recrystallized), 60%. Chert, light-green, dolomitic, 40%.
ORDOVICIAN at 1655 feet (check GR)

By - A. Janssens

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Depth (ft)

2360 - 2365 Shale, black, very slightly calcareous slightly organic, pyrite.
Dolomite, light-brown- to brown, medium to coarsely crystalline, grainy in part, 2 to 3%. TRENTON at 2359 feet GR

2365 - 2370 Dolomite as above, organic, some pyrite; most crystalline;
crinoid columnals; interlaminated with shale

2370 - 2375 Dolomite as above; part apparently mixed with, fine-grained,
reddish-brown matrix

2375 - 2380 Dolomite as above, vuggy

2380 - 2385 Dolomite as above

2385 - 2390 Dolomite as above

2390 - 2395 Dolomite as above

2395 - 2400 Dolomite as above

2400 - 2405 Dolomite as above, small 0.1mm pores

2405 - 2410 Dolomite as above, pores, abundant allochems

2410 - 2415 Dolomite as above. Dolomite, white, coarsely crystalline, 2 to 3%

2415 - 2420 Dolomite as above, brown

2420 - 2425 Dolomite as above; pores and vugs

2425 - 2430 Dolomite as above; black, organic shale partings. Chert,
buff to light-gray 1 to 2%

2430 - 2435 Dolomite as above, very grainy texture

2435 - 2440 Dolomite as above

2440 - 2445 Dolomite as above, porous

2445 - 2450 Dolomite as above. Dolomite, white, coarsely crystalline, vug
filling and veins, 4 to 5%. Sphalerite

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- 2450 - 2455 Dolomite as above, finely crystalline in part. Dolomite, white euhedral, coarsely crystalline, free in sample or mixed with brown, 5 to 6%
- 2455 - 2460 Dolomite as above, light brown. Dolomite as above, white 15 to 20%. Gypsum, (selenite), trace
- 2460 - 2465 Dolomite as above, light brown. Dolomite as above, white, 15 to 20%. Gypsum, trace
- 2465 - 2470 Dolomite as above, light brown. Dolomite as above, white, 10 to 15%
- 2470 - 2475 Dolomite as above, light brown. Dolomite as above, white 15 to 20%. Gypsum, 1%
- 2475 - 2480 Dolomite as above, light brown. Dolomite as above, white, 30 to 35%. Calcite, large clear dogtooth spar up to 4mm in length, 1%. Gypsum 1-2%
- 2480 - 2485 Dolomite as above, light brown. Dolomite as above, white, 20 to 25%. Gypsum, trace
- 2485 - 2490 Dolomite as above, light brown. Dolomite as above, white, 15 to 20%. Gypsum, trace
- 2490 - 2495 Dolomite as above, light brown. Dolomite as above, white, 15 to 20%
- 2495 - 2500 Dolomite as above, light brown. Limestone, light-brown- to brown, medium- to coarse-grained with large fragments of crinoids, bryozoans and brachiopods, dolomitic, small amount of clear crystalline calcite, 35 to 40%. Dolomite as above, white, 10 to 15%
- 2500 - 2505 Limestone as above. Dolomite as above, light brown. 35-40%. Dolomite as above, white, 10 to 15%

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- 2502 - 2510 Limestone as above; black organic shale partings. Dolomite
as above, light brown, 40 to 45%. Dolomite as above, white,
10%
- 2510 - 2515 Limestone as above, part organic
- 2515 - 2520 Limestone as above
- 2520 - 2525 Limestone as above, bryozoan fragments very abundant
- 2525 - 2530 Limestone as above
- 2530 - 2535 Limestone as above
- 2535 - 2540 Limestone as above
- 2540 - 2545 Limestone as above
- 2545 - 2550 Limestone as above
- 2550 - 2555 Limestone as above
- 2555 - 2560 Limestone as above; partings. Chert, reddish-brown, granular,
fossils included, 4 to 5%. Shale, light-gray, calcareous,
pyritic, silty, soft, swelling in water, 4 to 5%
- 2560 - 2565 Limestone as above. Chert as above, 3 to 4%. Shale as above,
3 to 4%
- 2565 - 2570 Limestone as above. Chert as above, brown, trace
- 2570 - 2575 Limestone as above, pyrite. Chert as above, brown, trace
- 2575 - 2580 Limestone as above; black organic partings. Chert, gray to black
1 to 2%. Chert as above, brown, 1 to 2%
- 2580 - 2585 Limestone as above, part organic. Chert as above, black, and brown
2 to 3%
- 2585 - 2590 Limestone, buff to tan, microgranular to lithographic, scattered
brachiopods, isolated pyrite cubes. BLACK RIVER at 2585 feet GR

By - R. Stieglitz
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