

667 - 675	Dolomite, very light-brown, microcrystalline to medium-crystalline, granular-looking; minor amount very light to medium gray. Shale, light-green, waxy; trace	999 - 1018	to trace Dolomite as above, very light brown, slightly glauconitic. Chert, white to cream-colored; trace from 1005 to 1018 feet
675 - 707	Dolomite as above, very light gray to brownish gray; sucrosic in part	1018 - 1032	Dolomite, very light-brown, light-grayish-brown to greenish-brown, microcrystalline to coarsely crystalline; argillaceous and silty in part. Chert as above, trace
707 - 818	Dolomite as above, very light gray; fair to excellent pin-point, intercrystalline, and vuggy porosity to 813 feet	1032 -	Shale, red; minor amount light green. Dolomite as above, trace. ORDOVICIAN at 1032 feet
818 - 873	Dolomite as above, fair vuggy porosity (some vugs filled with gypsum)		
873 - 880	Dolomite, very light- to dark-gray, light-greenish-gray, microcrystalline, pyritic; argillaceous in part. ROCHESTER FORMATION at 873 feet	Williams County Center Township Section 25	Tamp Oil Co. #1 Wine-land Permit No. 37 Sample No. 1429 Elevation (KB) 779 feet
880 - 885	Dolomite, very light-brown, microcrystalline, slightly sparry (fossiliferous?), slightly pyritic; minor amount light gray. Shale, light-green; trace. DAYTON FORMATION at 880 feet	Depth (ft) 460 - 470	Dolomite, very light-grayish-brown, sublithographic to microcrystalline. Shale, light-grayish-green. Sand, medium-grained, rounded; trace. SILURIAN (undifferentiated SALINA GROUP) at 468 feet (GRN)
885 - 890	Dolomite, very light-brown, microcrystalline. Dolomite, light- and medium-gray, microcrystalline; trace	470 - 490	Dolomite, very light-gray to brownish-gray, microcrystalline. Dolomite, light-brown, microcrystalline. Dolomite, light-gray, microcrystalline, sandy to very sandy. Shale, light-green; trace
890 - 895	Dolomite, very light- and light-brown, microcrystalline to coarsely crystalline, fossiliferous, very slightly glauconitic	490 - 500	Dolomite as above, very light gray. Dolomite, as above, light brown; selenite crystals
895 - 900	Dolomite as above, brown. Dolomite, medium-gray, mottled-brownish, microcrystalline, probably granular. Shale, light-green; trace	500 - 510	Dolomite, very light-grayish-brown, microcrystalline, slightly pyritic. Chert, light-gray; trace
900 - 930	Shale, light-green, poorly indurated. Dolomite, medium-green, mottled-brown, coarse-grained. Dirty sample. CABOT HEAD FORMATION at 900 feet	510 - 530 530 - 540	Cavings Dolomite, medium- and dark-gray, microcrystalline, pyritic, argillaceous; grading into shale
930 - 945	Shale, medium-green, fissile	540 - 550	Dolomite as above, light grayish brown in part
945 - 958	Shale as above. Dolomite, light-brown, microcrystalline; heavy trace to trace	550 - 560	Dolomite, light- to dark-gray, light-brown, grayish-brown, microcrystalline, laminated, slightly pyritic; argillaceous in part
958 - 999	Dolomite, light- and medium-brown, microcrystalline to coarsely crystalline, crinoidal, brachiopod-bearing. Shale as above, heavy trace	560 - 570	Dolomite, light- and medium-

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	brown to grayish-brown, microcrystalline, pyritic; argillaceous in part	700 - 710	Dolomite, very light-brown to grayish-brown and yellowish-brown, microcrystalline to medium-crystalline, very sparry; poor to fair pinpoint to vuggy porosity
570 - 580	Dolomite, light- and medium-brown, microcrystalline; poor pinpoint porosity. Gypsum and anhydrite, trace		
580 - 590	Dolomite as above, poor pinpoint to vuggy porosity. Dolomite, light- and medium-gray to grayish-brown, microcrystalline, anhydritic; trace	710 - 730	Dolomite, light-brown, microcrystalline and very finely crystalline; probably pelletal in part; poor pinpoint porosity
590 - 600	Dolomite, light-brownish-gray, light- and medium-brown, microcrystalline and very finely crystalline; sucrosic in part; pelletal in part; patches of sparry dolomite; poor to fair pinpoint porosity. Nonrepresentative Salina	730 - 740	Dolomite, medium-gray, microcrystalline, argillaceous; poor vuggy porosity. Dolomite as above, trace (Tymochtee lens)
600 - 620	Dolomite, light-brown, grayish-brown, microcrystalline, laminated; dark-gray shaly partings	740 - 750	Dolomite, light- and medium-brown, microcrystalline to finely crystalline; poor vuggy porosity. Dolomite, light-gray, brownish-gray, microcrystalline; patches of sparry dolomite. Sphalerite, trace
620 - 640	Dolomite, very light-gray, brown, microcrystalline; poor vuggy porosity. Top of nonrepresentative Salina	750 - 760	Dolomite, light-yellowish-gray to light-brown, microcrystalline and very finely crystalline, sparry, fossiliferous (corals?); sucrosic in part; excellent vuggy porosity; laminated in part
640 - 650	Dolomite, medium- and dark-brown, mottled-light-yellowish-brown, microcrystalline, probably pelletal, faintly laminated; patches of sparry dolomite	760 - 770	Dolomite, light-brown, microcrystalline and very finely crystalline, very sparry; excellent vuggy porosity
650 - 660	Dolomite as above, very light gray in small part; poor pinpoint to vuggy porosity	770 - 780	Dolomite, light- and medium-brown, microcrystalline, very sparry; poor to fair pinpoint to vuggy porosity
660 - 670	Dolomite as in sample from 640 to 650 feet; excellent pinpoint to vuggy porosity (due to solution of anhydrite? crystals)	780 - 800	Dolomite, light-brown, microcrystalline and very finely crystalline, very sparry, coralline (colonial corals); poor vuggy porosity
670 - 680	Dolomite, light- and medium-brown, microcrystalline and very finely crystalline; poor pinpoint porosity	800 - 810	Dolomite, light-brown, microcrystalline and very finely crystalline, slightly sparry
680 - 690	Dolomite as above, poor to fair pinpoint and vuggy porosity; a moderate number of patches of sparry dolomite	810 - 820	Dolomite, very light-yellowish-gray, microcrystalline and very finely crystalline, very sparry; poor pinpoint to vuggy porosity
690 - 700	Dolomite, light- and medium-brown, microcrystalline and very finely crystalline, pelletal; poor pinpoint porosity. Dolomite, very light-gray and brownish-gray, microcrystalline; a few patches of sparry dolomite	820 - 840	Dolomite as in sample from 800 to 810 feet; slightly grayish from 830 to 840 feet
		840 - 850	Dolomite, very light-gray to light-yellowish-gray, microcrystalline. Dolomite as above
		850 - 870	Dolomite, very light- and light-brown to grayish-brown, microcrystalline to coarsely

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## SILURIAN ROCKS OF NORTHWESTERN OHIO

870 - 890	crystalline Dolomite, light-gray, very light- to medium-brown, microcrys- talline to medium-crystalline, slightly sparry; sucrosic in part	1175 - 1180	brown, dolomitic; trace Dolomite, light-brown, micro- crystalline to medium-crys- talline; slightly argillaceous in part; 90%. Chert as above, 10%
890 - 910	Dolomite, light- and medium- gray, brownish-gray, micro- crystalline and very finely crystalline. LOCKPORT DOLO- MITE at 890 feet	1180 - 1185	Dolomite, light- and medium- brown, microcrystalline to medium-crystalline, probably granular or bioclastic
910 - 970	Dolomite as above, light gray, brownish gray	1185 - 1190	Dolomite as above, 95%. Chert, cream-colored; 5%. Shale, medium-gray, dark-brown, dolomitic; trace
970 - 975	Dolomite, very light-gray to brownish-gray, microcrys- talline and very finely crys- talline; sucrosic in part; fair vuggy porosity	1190 - 1195	Dolomite as above, 95%. Chert as above, 5%. Shale as above, heavy trace
975 - 1000	Dolomite as above, finely crys- talline to coarsely crystalline in part; poor to fair vuggy porosity	1195 - 1210	Dolomite, very light-brownish- gray, microcrystalline to coarsely crystalline
1000 - 1015	Dolomite as above, very light and light gray to brownish gray	1210 - 1215	Dolomite as above. Dolomite, very light- to light-greenish- gray, very fine-grained, very slightly argillaceous; trace. ORDOVICIAN at 1214 feet (GRN)
1015 - 1040	Dolomite as above, very light gray		
1040 - 1045	Dolomite, very light-gray, mi- crocrystalline to coarsely crystalline. Dolomite, light- yellowish-gray, microcrys- talline to coarsely crystalline		
1045 - 1055	Dolomite as above. Dolomite, light- and medium-brown, very finely crystalline, sparry	Wood County Washington Township Section 32 (NE $\frac{1}{4}$ )	Continental #1 Euler Permit No. 211 Sample No. 1043 Elevation (KB) 668 feet
1055 - 1070	Dolomite, very light-gray, mi- crocrystalline to coarsely crystalline	Depth (ft)	Bedrock at 112 feet in SALINA GROUP (B unit?)
1070 - 1075	Dolomite, light-gray, micro- crystalline	0 - 140	Overburden
1075 - 1145	Dolomite, very light- and light- gray, microcrystalline to coarsely crystalline	140 - 150	Shale, light-green; 50%. Dolomite, light-brown, microcrystalline; sandy in part; may be over- burden; 50%. Calcite, drusy; trace
1145 - 1165	Dolomite, very light- and light- gray, brown, light-greenish- gray, microcrystalline, slightly pyritic, slightly argil- laceous. Dolomite, light- greenish-gray, microcrystal- line, very argillaceous; trace. Base of LOCKPORT DOLO- MITE(?) at 1137 feet (GRN)	150 - 170	Shale, light-green; 50%. Dolomite as above, very light brown in part, 50%. Calcite as above, heavy trace
1165 - 1170	Dolomite, light- and medium- brown, mottled-gray, mi- crocrystalline	170 - 180	Dolomite as above. Shale, light- green; heavy trace. Calcite as above, heavy trace
1170 - 1175	Dolomite as above, microcrys- talline to medium crystalline; 60%. Chert, white, fossilif- erous; 40%. Shale, dark-	180 - 190	Dolomite, very light- to dark- brown, microcrystalline, gypsiferous; laminated in part; 95%. Shale, light-green; 5%. Gypsum, heavy trace
		190 - 200	Dolomite, light- and medium- brown, microcrystalline; dark- brown partings. Shale as above, trace. Anhydrite, trace
		200 - 210	Dolomite, light- and medium- brown, microcrystalline; su-

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Williams County  
Center Township  
Section 25 (NE $\frac{1}{4}$ )

Tamp Oil Co.  
#1 Wineland, R.  
Permit No. 37  
Sample No. 1429  
Elevation (KB) 779 feet

Depth (ft)

1970 - 1980	Shale, black, slightly silty, slightly carcaceous; trace of milky white rhombic dolomite
1980 - 1990	Shale as above. Dolomite, light-brown to white, medium to coarsely crystalline, intercrystalline porosity, calcareous; 15 to 20%. Pyrite, free or with dolomite 2 to 3%. TRENTON at 1979 feet (GR=N)
1990 - 1995	Dolomite as above allochems and scattered fossil fragments; some pyrite; dark shale partings.
1995 - 2000	Dolomite as above.
2000 - 2005	Dolomite as above; crinoid columnals, few shale partings
2005 - 2010	Dolomite as above, bryozoa
2010 - 2015	Dolomite as above; little pyrite; shale partings and stylolites; vugs up to 0.6 mm; many filled with clear to white dolomite
2015 - 2020	Dolomite, light brown to brown, grainy texture, slightly more calcareous, crinoid columnals up to 3.5 mm in diameter. Limestone, light-brown- to brown, coarse-to very coarse-grained, fossiliferous, brachiopods, crinoids, bryozoa, organic residue, dolomitic, sparry calcite; 35 to 40%
2020 - 2025	Dolomite as above; crinoid columnals present but recrystallized; pyrite. Limestone as above, 5%
2025 - 2030	Dolomite, light-brown and brown, medium to coarsely crystalline, mottled with white very coarse dolomite; shale partings
2030 - 2035	Dolomite as above

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- 2035 - 2040 Dolomite as above
- 2040 - 2045 Dolomite as above. Chert, white; trace
- 2045 - 2050 Dolomite, light brown to brown, medium to coarsely crystalline,  
grainy in part abundant crinoid columnals; some rhombic and  
porous
- 2050 - 2055 Dolomite as above; many fossil fragments, most unidentifiable;  
part dark brown shaly and organic dolomite; dark brown  
shale partings
- 2055 - 2060 Dolomite as above, porous
- 2060 - 2065 Dolomite as above, porous
- 2065 - 2070 Dolomite as above, rhombic dolomite apparently filling vugs, porous
- 2070 - 2075 Dolomite as above, porous
- 2075 - 2080 Dolomite as above, porous
- 2080 - 2085 Dolomite as above, porous
- 2085 - 2090 Dolomite as above, stylolites and shale partings abundant
- 2090 - 2095 Dolomite as above
- 2095 - 2100 Dolomite as above, small amount of clear or white, coarsely crystal-  
line dolomite filling vugs, slightly porous
- 2100 - 2105 Dolomite as above, porous
- 2105 - 2110 Dolomite as above, porous
- 2110 - 2115 Dolomite as above; sparry white dolomite filling vugs. Limestone,  
light-brown- to brown, coarse- to very coarse-grained, bioclastic;  
crinoids, brachiopods, bryozoa, very dolomitic; pearly shell  
surface; 35 to 40%
- 2115 - 2120 Limestone as above, some fine grained matrix  
between fossil fragments. Dolomite as above, 35 to 40%
- 2120 - 2125 Limestone as above, abundant shale partings. Dolomite as above,  
20 to 25%

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- 2125 - 2130 Limestone as above. Dolomite as above, 5 to 10%
  - 2130 - 2135 Limestone as above, bryozoans
  - 2135 - 2140 Limestone as above, bryozoans
  - 2140 - 2145 Limestone as above, some microgranular matrix
  - 2145 - 2150 Limestone as above
  - 2150 - 2155 Limestone as above, much microgranular matrix
  - 2155 - 2160 Limestone as above
  - 2160 - 2165 Limestone as above; many pearly shell surfaces, part containing black  
organic material
  - 2165 - 2170 Limestone as above
  - 2170 - 2175 Limestone as above
  - 2175 - 2180 Limestone as above. Chert, white to gray, trace
  - 2180 - 2185 Limestone as above. Chert, white, gray and buff; most gray with  
brown mottling; scarce pyrite cubes; 3%
  - 2185 - 2190 Limestone as above. Chert, as above white and gray mottled, 4 to 5%
  - 2190 - 2195 Limestone as above; part gray to black, argillaceous, organic.  
Chert, buff and gray to black, 5 - 6%
  - 2195 - 2200 Limestone as above. Chert as above, most gray to black; 4 - 5%
  - 2200 - 2205 Limestone as above. Chert as above, 2 - 3%
  - 2205 - 2210 Limestone, buff to light-brown, microgranular to lithographic,  
veins and patches of clear, coarse-grained calcite. Limestone  
as above, 40 to 45%. Chert as above, 2 to 3%
- BLACK RIVER at 2209 feet (GR-N)

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By - R. S. Stegall