

724 - 734	Dolomite, very light-brown to light-grayish-brown, microcrystalline	957 - 976	crystalline Dolomite, very light-gray, brown (minor amount medium and dark gray), microcrystalline and very finely crystalline; excellent vuggy porosity. LOCKPORT DOLOMITE at 957 feet
734 - 770	Dolomite as above, medium grayish brown in part; a few black shaly partings		
770 - 780	Dolomite, medium-grayish-brown, microcrystalline; black, dark-brown partings. TYMOCHTEE DOLOMITE at 770 feet	976 - 1054	Dolomite as above, very light gray, microcrystalline to coarsely crystalline
780 - 789	Dolomite as above, dark grayish brown; partings as above	1054 - 1070	Dolomite as above, light and medium gray
789 - 811	Dolomite, medium- and dark-brown, slightly grayish, microcrystalline; partings as above	1070 - 1087	Dolomite as above, light to dark gray, slightly pyritic. Dolomite, light-greenish-gray, microcrystalline, argillaceous; trace. ROCHESTER FORMATION at 1080 feet
811 - 831	Dolomite, very light- to medium-brown, slightly grayish, microcrystalline	1087 - 1096	Dolomite, very light- to medium-gray, brown, microcrystalline to coarsely crystalline, cherty, pyritic, slightly argillaceous
831 - 860	Dolomite, medium-grayish-brown to dark-gray, microcrystalline, slightly pyritic; partings as above. Gypsum, trace from 846 to 860 feet	1096 - 1127	Dolomite as above. Dolomite, light-brown, slightly grayish, microcrystalline; silty looking to 1119 feet
860 - 870	Dolomite as above, dark brown in part. Dolomite, very light-brown, very light-brownish-gray, microcrystalline and very finely crystalline; laminated with gypsum; vugs filled with gypsum; fair pinpoint porosity in light-colored dolomite. GREENFIELD DOLOMITE at 865 feet	1127 - 1145	Dolomite, very light- and light-brown, microcrystalline to coarsely crystalline, slightly pyritic
870 - 886	Dolomite, light- to dark-brown, microcrystalline; very finely sucrosic in part; poor pinpoint porosity; vugs filled with gypsum (to 879 feet)	1145 - 1155	Dolomite, white, very light- and light-brown, microcrystalline to coarsely crystalline; sucrosic in part
886 - 904	Dolomite, light- to dark-brown, microcrystalline; poor pinpoint porosity	1155 - 1165	Dolomite as above, white
904 - 912	Dolomite, very light-brownish-gray, light-gray, light-brown, microcrystalline, laminated	1165 - 1170	Dolomite, mottled-medium-brown, gray, finely and medium-crystalline, granular-looking; argillaceous in part. Dolomite as above, trace. BRASSFIELD FORMATION at 1147 feet. ORDOVICIAN at 1167 feet
912 - 920	Dolomite as above. Sparry dolomite, trace		Ohio Oil geologist's tops:
920 - 939	Dolomite, light-brown, microcrystalline to medium-crystalline; fine to coarse grained in part, sucrosic in part; poor vuggy porosity		A ₂ dolomite 780 feet
939 - 948	Dolomite as above. Chert, white, light-gray, fossiliferous(?); heavy trace. Sulfur, trace	Hancock County Liberty Township Section 28 (NW $\frac{1}{4}$)	A ₁ dolomite 848 feet Brown "Niagaran" 893 feet White "Niagaran" 920 feet "Clinton Cataract" 1087 feet Cincinnati 1167 feet
948 - 957	Dolomite, very light-brownish-gray to light-brown, microcrystalline and very finely	Depth (ft)	Ashland #1 Cramer Permit No. 150 Sample No. 1650 Elevation (KB) 793 feet

Bedrock at 10 feet in undifferentiated SALINA GROUP

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0 - 10	Overburden			yellowish and pinkish in part.
10 - 40	Dolomite, light- and medium-brown, microcrystalline			Chert, very light-gray; trace from 400 to 410 feet
40 - 70	Dolomite, very light- to medium-brown, microcrystalline	410 - 430		Dolomite as above, slightly glauconitic. Dolomite, light- and medium-greenish-gray, micrograined, argillaceous
70 - 90	Dolomite, light- and medium-grayish-brown, microcrystalline; black partings. TYMOCHTEE DOLOMITE at 70 feet	430 - 440		Dolomite as above. Shale, light-green; heavy trace. ORDOVICIAN(?) at 442 feet (GRN) Samples from 440 to 450 feet include red shale.
90 - 100	Dolomite, medium-brown to grayish-brown, microcrystalline; black and very dark-brown partings			
100 - 120	No samples			
120 - 130	Dolomite, medium- to dark-gray, microcrystalline, very argillaceous; grading into shale	Hardin County	Teeters #1 Stephens	
130 - 150	Dolomite as above. Dolomite, medium-grayish-brown, microcrystalline. Dolomite, light-brown, microcrystalline	Cessna Township	Permit No. 108	
150 - 160	Dolomite as above. Dolomite, medium-brown, microcrystalline; trace. GREENFIELD DOLOMITE at 160 feet	Section 26 (NE $\frac{1}{4}$)	Sample No. 2099	
160 - 180	Dolomite, light- and medium-brown, microcrystalline and very finely crystalline; fair vuggy porosity in part. Cavings	Depth (ft)	Elevation (DF) 984 feet	
180 - 190	Dolomite as above. Dolomite, very light-gray, microcrystalline and very finely crystalline; LOCKPORT DOLOMITE at 190 feet (GRN)	0 - 100		Bedrock at 94 feet (driller's log) in TYMOCHTEE DOLOMITE
190 - 290	Dolomite as above, very light gray; excellent vuggy porosity. Cavings	100 - 108		No samples
290 - 320	Dolomite as above, very light and light gray	108 - 122		Dolomite, light-brown, microcrystalline; minor amount dark brown
320 - 350	Dolomite as above, in part medium and dark gray; in part slightly argillaceous; in part slightly pyritic. ROCHESTER FORMATION(?) at 310 feet (GRN)	122 - 129		Dolomite, light- and medium-gray to brownish-gray and grayish-brown, microcrystalline, laminated; dark-gray shaly partings. Dolomite as above, trace to 116 feet
350 - 370	Dolomite, very light-brown, very light- and light-gray, microcrystalline to coarsely crystalline	129 - 133		Dolomite as above. Dolomite, dark-brown, microcrystalline, laminated; fine grained(?) in part. Limestone (secondary), light-gray, very finely crystalline; sucrosic in part; poor vuggy porosity. GREENFIELD DOLOMITE at 125 feet
370 - 390	Dolomite as above, mottled pink and yellow in part. Dolomite, light-greenish-gray, microcrystalline, argillaceous; trace	133 - 139		Dolomite, very light-brown, microcrystalline; in part lined with dogtooth crystals of calcite. Limestone as above, trace
390 - 410	Dolomite, mottled-light-gray, light-brown, recrystallized, probably coarse-grained;	139 - 156		Dolomite, light- to dark-brown, microcrystalline and very finely crystalline; carbonaceous partings
		156 - 163		Dolomite as above. Dolomite, very light-brown, microcrystalline and very finely crystalline
				Dolomite, very light- and light-brown, light-gray, microcrystalline and very finely crystalline; sucrosic in part; very calcitic in part

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Hancock County
Liberty Township
Section 28 (NW $\frac{1}{4}$)

Ashland 04^R
Cramer #1
Permit No. 150
Sample No. 1650
Elevation (KB) 793 feet

Depth (ft)

- 1240 - 1250 Shale, gray, greenish-gray, black, silty, very slightly calcareous, cavings appear abundant
- 1250 - 1260 Shale, black, silty, slightly pyritic. Dolomite, white to light-gray, medium to coarsely crystalline, rhombic texture, vuggy porosity, scattered pyrite, black stylolites. TRENTON at 1252 feet (GRN)
- 1260 - 1270 Dolomite as above, black shale partings
- 1270 - 1280 Dolomite, light-brown- to brown, medium to coarsely crystalline, grainy in part containing pelmatozoan and brachiopod fragments, pyrite, argillaceous in part, stylolites, cavernous porosity
- 1280 - 1290 Dolomite as above, vuggy porosity
- 1290 - 1300 Dolomite as above
- 1300 - 1310 Dolomite as above, less porosity apparent, very slightly calcareous in part
- 1310 - 1320 Dolomite as above, part rhombic and porous
- 1320 - 1330 Dolomite as above
- 1330 - 1340 Dolomite as above. Limestone, buff to dark-brown, microgranular containing pieces of pelmatozoan and brachiopods, very argillaceous in part, dense appearing, 10 to 15%. Chert, light-gray to brown, 1 to 2%
- 1340 - 1350 Limestone as above, small amount of crystalline calcite, rare pyrite, pearly shelled brachiopods
- 1350 - 1360 Limestone as above
- 1360 - 1370 Limestone as above; black organic shale partings. Chert, brown, trace

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- 1370 - 1380 Limestone as above. Chert, brown and white silicified fossils, trace
- 1380 - 1390 Limestone as above, silty in part; little organic matter
- 1390 - 1400 Limestone as above, part fine- to coarse-grained fossil pieces cemented by crystalline calcite
- 1400 - 1410 Limestone as above, white round nodules of chert on shells; 5 to 10% of brown organic appearing shale, probably partings
- 1410 - 1420 Limestone as above, veins of euhedral calcite, matrix lithographic in part; shale partings
- 1420 - 1430 Limestone as above, shale partings
- 1430 - 1440 Limestone as above, shale parting
- 1440 - 1450 Limestone, light-brown, predominantly fossil pieces cemented by crystalline calcite, small part microgranular. Chert, dark-gray to black, 5 to 6%. Chert, white to light-brown, 3 to 4%. Shale, light-gray, soft, expanding in water, pyritic, trace
- 1450 - 1460 Limestone as above. Chert as above, black, 5 to 6%. Chert as above, white to light brown, 2 to 3%
- 1460 - 1470 Limestone as above, bryozoans, shale partings. Chert as above, black, 5 to 10%. Chert as above, white to light brown, 1%
- 1470 - 1480 Limestone as above, part buff microgranular. Limestone, light-gray to tan, lithographic, veins of calcite, 5 to 10%. Chert as above, part dark brown, 5 to 10%. Chert as above, black, 2 to 3%
- 1480 - 1490 Limestone as above. Chert as above, predominantly dark brown, 10 to 12%. Limestone as above, light gray to tan, 8 to 10%. Chert as above, black, 1 to 2%
- 1490 - 1500 Limestone as above. Limestone as above, lithographic, 20 to 25%. Chert as above, brown, 5 to 10%. Chert as above, black, 1 to 2%

- 1500 - 1510 Limestone as above; shiny black shale partings. Limestone as above, lithographic, gastropods, ostracods 20 to 25%. Chert as above, light gray to brown, 5 to 6%. Chert as above, black, 3 to 4%
- 1510 - 1520 Limestone, light-gray to tan, lithographics, veins and pockets of crystalline calcite, scattered pyrite. Limestone as above, light brown, medium- to coarse-grained 15 to 20%. Chert, all kinds, 2 to 3%. Shale, light-gray, soft, pyritic, 1%.
BLACK RIVER at 1514 feet (GRN)

By - R. Stieglitz

6-1973

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