

Allen County
Shawnee Township
Section 2 (SE $\frac{1}{4}$)

Vistron Corp.
#1 Standard Oil
Permit No. 67
Sample No. 2129
Elevation 872 (KB) feet

Depth (ft)	
1265 - 1270	Shale, black, silty, calcareous, masses and cubes of pyrite free in sample
1270 - 1275	Dolomite, light-brown to white, apparently medium to coarsely crystalline, pelmatozoan fragments, crystalline calcite scattered pyrite; small part brown containing organic appearing residue. TRENTON at 1252 feet (GR)
1275 - 1280	Dolomite as above
1280 - 1285	Dolomite as above
1285 - 1290	Dolomite as above
1290 - 1295	Dolomite, light-brown, medium to coarsely crystalline, very calcareous containing up to 30 to 35% calcite, apparently very pure containing little organic or argillaceous material, pelmatozoan and poorly preserved brachiopod fragments, in part rhombic textured with interstitial and some vuggy porosity
1295 - 1300	Dolomite as above, 30 to 35% calcite
1300 - 1305	Limestone, light-brown- to brown, microgranular to medium-grained containing pelmatozoans and brachiopods, some very well preserved with pearly shell surfaces, part containing soft brown residue and some silt, 10 to 15% dolomite; in part clear calcite cemented
1305 - 1310	Limestone as above, predominantly clear calcite cemented fossil debris; little brown microgranular

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- 1310 - 1315 Limestone as above
- 1315 - 1320 Limestone, light-brown- to brown, microgranular, containing pieces of pelmatozoans and abundant brachiopods with pearly shell surfaces, brown soft residue, dolomitic, part clear calcite cemented
- 1320 - 1325 Limestone as above, predominantly microgranular to very fine-grained, little calcite cemented fossil debris
- 1325 - 1330 Limestone as above
- 1330 - 1335 Limestone as above
- 1335 - 1340 Limestone as above
- 1340 - 1345 Limestone as above, larger part calcite cemented
- 1345 - 1350 Limestone as above, clear calcite cemented fossil fragments abundant
- 1350 - 1355 Limestone as above
- 1355 - 1360 Limestone as above
- 1360 - 1365 Limestone as above
- 1365 - 1370 Limestone as above. Chert, brown, slightly calcareous, trace
- 1370 - 1375 Limestone as above. Chert, light-gray, brown, white, 2 to 3%
- 1375 - 1380 Limestone as above. Chert as above, part banded, 1 to 2%
- 1380 - 1385 Limestone as above. Chert as above, sometimes present as small rounded nodules on shell material, 2 to 3%
- 1385 - 1390 Limestone as above. Chert as above 2 to 3%
- 1390 - 1395 Limestone, light-brown- to brown, predominantly medium- to coarse-grained calcite cemented fossil fragments, 5 to 10% dolomite rhombs within calcite, little brown microgranular
- 1395 - 1400 Limestone as above
- 1400 - 1405 Limestone as above. Chert light-gray to white, part containing rusty brown granular appearing material, 1 - 2%

- 1405 - 1410 Limestone as above, minor part microgranular to very fine-grained. Chert as above, 1 - 2%
- 1410 - 1415 Limestone as above. Chert as above, some silicified fossil fragments, 3 - 4%
- 1415 - 1420 Limestone as above. Chert as above, 3 - 4%
- 1420 - 1425 Limestone as above. Chert as above, 1 to 2%
- 1425 - 1430 Limestone as above, bryozoans. Chert as above, 1 to 2%
- 1430 - 1435 Limestone as above. Chert as above, 1 to 2%
- 1435 - 1440 Limestone as above, partly silicified. Chert as above, part rusty brown granular appearing, 2 - 3%
- 1440 - 1445 Limestone, light-brown to tan, microgranular to lithographic, scattered patches and veins of clear calcite, scattered pyrite. Chert, light-gray to light-brown, speckled brown, 12 to 15%. Limestone as above, 5 to 10%. Shale, light-gray, soft, pyritic, expanding in water, trace. BLACK RIVER at 1426 feet (GR)

By R. Stieglitz

5-1973

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APPENDIX A - SAMPLE DESCRIPTIONS

Depth (ft)	Ship	Compass #1 Co. (Ohio) 2129 872 feet	Interval	Description
1750 - 1810			2225 - 2230	finely and finely crystalline, silty Sandstone, white, very fine-grained, dolomitic, very slightly glauconitic
			2230 - 2240	Dolomite, white to medium-brown, microcrystalline and finely crystalline, silty
			2240 - 2250	Dolomite as above; 30-50% sandstone as in sample from 2225 to 2230 feet
			2250 - 2265	Dolomite, light-brown, very finely and finely crystalline; very slightly glauconitic in part
			2265 - 2270	Dolomite as above, very light and light brown
			2270 - 2275	Dolomite, very light- to medium-brown, very finely and finely crystalline, slightly glauconitic; medium and coarse grained in part. Sandstone, dark-brown, very fine-grained, micaceous; trace
1810 - 1820			2275 - 2290	Dolomite as above. Siltstone, light-brown, slightly dolomitic, slightly glauconitic
1820 - 1825			2290 - 2295	Dolomite and siltstone as above, siltstone micaceous and argillaceous
1825 - 1830			2295 - 2300	Dolomite as above, minor. Siltstone, light-brownish-gray, glauconitic; micaceous in part; argillaceous in part. Shale, red to dark-gray, silty, micaceous; minor
1830 - 1835			2300 - 2320	As above, shale dark gray
1835 - 1840			2320 - 2325	Dolomite, very light- and light-brown, microcrystalline and finely crystalline; silty in part
1840 - 1860			2325 - 2330	No samples
			2330 - 2340	Dolomite as in sample from 2320 to 2325 feet
			2340 - 2370	Dolomite, very light- to medium-brown, very finely and finely crystalline, slightly pyritic
1860 - 1870			2370 - 2400	Dolomite, light- and medium-brown, finely and medium-crystalline
1870 - 1885			2400 - 2405	Dolomite, very light- and light-brown, very finely and finely crystalline, slightly sandy (very fine- and fine-grained sand)
1885 - 1895			2405 - 2420	Dolomite, very light- and light-brown, very finely and finely crystalline, slightly sandy (very fine- and fine-grained sand)
1895 - 1925			2420 - 2430	Dolomite as above. Sandstone, light-brownish-gray, very fine-grained, glauconitic.
			2430 - 2435	EAU CLAIRE FORMATION at 2420 feet
			2435 - 2495	As above, dolomite glauconitic
1925 - 1935			2495 - 2510	Dolomite as above, minor. Sandstone as above. Shale, light- and medium-gray, micaceous
1935 - 2000			2510 - 2530	Shale, medium-gray to greenish-gray; 50% Sandstone, very light-brown and light-brownish-gray, very fine-grained, micaceous, glauconitic. Limestone and dolomite, light-brown, finely and medium-crystalline, sandy, glauconitic
2000 - 2010			2530 - 2600	Shale as above. Sandstone as above (fossil fragment in sample from 2520 to 2525 feet). Limestone and dolomite as above, trace
2010 - 2040			2600 - 2605	Shale as above, in part brown to reddish brown. Sandstone as above. Dolomite as above, trace
2040 - 2100			2605 - 2610	No samples
2100 - 2120			2610 - 2620	Sandstone, pink, very fine- and fine-grained, glauconitic, micaceous; in part hematitic. Shale, medium-greenish-gray to reddish-brown; trace. Dolomite, very light-brown, coarsely crystalline, glauconitic; trace
2120 - 2140				Sandstone as above, light and medium gray, argillaceous. Shale and dolomite as above, trace
2140 - 2155				
2155 - 2185				
2185 - 2200				
2200 - 2205				
2205 - 2210				
2210 - 2220				
2220 - 2225				

CAMBRIAN AND LOWER ORDOVICIAN ROCKS IN OHIO

2620 - 2625	No samples		
2625 - 2630	Sandstone, pink to light- and medium-gray, very fine- and fine-grained, glauconitic, very slightly hematitic	2892 - 2895	few coarse and rounded grains; laminated in part with shaly partings Sandstone, pink, fine-grained, very fossiliferous; shaly laminations
2630 - 2650	As above, nonhematitic	2895 - 2897	Sandstone, pink, fine-grained; shaly laminations; a few coarse and rounded grains from 2896 to 2897 feet
2650 - 2655	No samples	2897 - 2898	No samples
2655 - 2670	Sandstone as above with laminations of reddish-brown shale. Dolomite, white to very light-brown, coarsely crystalline, fossiliferous(?); trace	2898 - 2912	Sandstone, pink, fine-grained, fossiliferous; chitinous(?) material and shaly laminations scattered irregularly through the interval; trace of glauconite from 2906 to 2907 and 2909 to 2912 feet
2670 - 2685	As above. Shale, reddish-brown to medium-grayish-brown; heavy trace	2912 - 2914	Sandstone, light-gray, fine-grained, very glauconitic, fossiliferous; shaly laminations (as sandstone in sample from 2874 to 2875 feet)
2685 - 2690	No samples	2914 - 2919	Sandstone, pink, fine-grained, containing chitinous(?) and carbonaceous material
2690 - 2705	Sandstone, pink to light- and medium-gray, very fine- and fine-grained, glauconitic, micaceous; shale partings. Shale, reddish-brown; trace. Dolomite, white to very light-brown, dense to coarsely crystalline, fossiliferous(?), glauconitic; trace	2919 - 2921	Sandstone, pink, fine- and medium-grained; a few coarse grains
2705 - 2775	As above, shale in part light- and medium-greenish-gray to brownish-gray	2921 - 2922	Sandstone, pink and colorless, coarse-grained
2775 - 2785	Sandstone as above, fine and medium grained. Shale and dolomite as above, trace	2922 - 2926	Sandstone, pink and colorless, fine-grained; layers of medium- and coarse-grained sand
2785 - 2794	No samples	2926 - 2927	Sandstone, colorless, coarse-grained; grains rounded
2794 - 2812	<i>Core chips from 2794 feet to TD</i> Sandstone, pink to light-gray, fine-grained, slightly glauconitic, crossbedded; laminated with shale partings in places; glauconite pellets concentrated on crossbed planes	2927 - 2939	Sandstone, pink, predominantly fine-grained; layers of fine- to coarse-grained sandstone; pyrite laminations from 2932 to 2933 feet; shaly laminations from 2938 to 2939 feet
2812 - 2821	Sandstone as above, interbedded with fine- and medium-grained light-gray to yellowish-gray sandstone; intergranular porosity; biotite flakes; quartz sand grains angular	2939 - 2940	Sandstone, colorless, fine- to coarse-grained, poorly sorted, fossiliferous; containing biotite
2821 - 2830	Sandstone as above, with a few coarse grains	2940 - 2948	Sandstone, pink and colorless, fine-grained, fossiliferous; containing biotite and carbonaceous material; shaly laminations; light-green clayey laminations from 2942 to 2943 feet
2830 - 2832	Sandstone, light-gray, very fine- and fine-grained, very glauconitic	2948 - 2949	Sandstone as above, fine to coarse grained
2832 - 2833	Sandstone, light-yellowish-gray, fine-grained, slightly glauconitic, slightly biotitic	2949 - 2952	Sandstone as in sample from 2940 to 2948 feet, fine and medium grained
2833 - 2834	Sandstone as in sample from 2830 to 2832 feet	2952 - 2955	Sandstone, colorless and pink, medium- and coarse-grained
2834 - 2838	Sandstone, pink, fine-grained. MT. SIMON SANDSTONE at 2834 feet	2955 - 2956	Sandstone, pink, fine-grained
2838 - 2856	Sandstone, pink to light-gray, fine- to coarse-grained (predominantly fine and medium); brachiopod mold at 2851 feet	2956 - 2961	Sandstone as in sample from 2952 to 2955 feet, colorless and pink sand grains alternating in some chips
2856 - 2857	Sandstone as above, with shaly and micaceous partings	2961 - 2966	Sandstone, pink, predominantly fine-grained; containing carbonaceous material and shaly partings
2857 - 2861	Sandstone, pink, fine-grained; minor proportion of medium-sized grains; brachiopod mold at 2857 feet	2966 - 2967	Sandstone, light-gray, medium-grained; good intergranular porosity
2861 - 2862	Sandstone, light-yellowish-gray to pink, fine- to coarse-grained, poorly sorted	2967 - 2969	Sandstone, pink, fine-grained; containing a layer of coarse sand grains
2862 - 2871	Sandstone, pink, fine-grained; in part laminated with gray to black shaly and micaceous partings	2969 - 2970	Sandstone, light-gray to pink, poorly sorted (many coarse grains in fine-grained matrix)
2871 - 2872	Sandstone, light-gray to pink, medium-grained; containing soft dull platy black material (brachiopod valve?)	2970 - 2971	Sandstone, light-gray; fine and medium grained in alternating irregular layers
2872 - 2873	Sandstone as above, glauconitic; containing brachiopod valve	2971 - 2972	Sandstone, light-gray, medium-grained; good intergranular porosity
2873 - 2874	Sandstone as in sample from 2871 to 2872 feet, fine grained	2972 - 2975	Sandstone as above, fine to coarse grained, poorly sorted
2874 - 2875	Sandstone, very light-gray, fine-grained, very glauconitic, fossiliferous; shaly laminations	2975 - 2978	Sandstone, colorless, coarse-grained (much secondary quartz growth on rounded to sub-rounded grains); good intergranular porosity
2875 - 2877	Sandstone, light-gray to pink, fine-grained; shaly laminations; some biotite; chitinous(?) material	2978 - 2979	Sandstone, pink, fine-grained; minor amount of coarse-grained sand
2877 - 2878	Sandstone as above, glauconitic	2979 - 2980	Sandstone, colorless, medium-grained
2878 - 2883	Sandstone as in sample from 2874 to 2875 feet, light gray to pink	2980 - 2982	Sandstone as in sample from 2978 to 2979 feet, containing shaly and micaceous partings
2883 - 2884	Sandstone, pink, fine-grained	2982 - 2983	Sandstone, colorless, medium- and coarse-grained; good intergranular porosity
2884 - 2885	Sandstone, pink, fine-grained, very glauconitic; glauconite concentrated on undulating bedding planes; shaly laminations	2983 - 2984	Sandstone, pink to light-gray, fine-grained; shaly laminations
2885 - 2889	Sandstone, pink, fine-grained	2984 - 2985	Sandstone, colorless, medium-grained
2889 - 2892	Sandstone, pink, fine- and medium-grained; a	2985 - 2986	Sandstone, pink, fine-grained; a few coarse

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