

CAMBRIAN AND LOWER ORDOVICIAN ROCKS IN OHIO

3660 - 3670	SIMON Sandstone at 3650 feet Sandstone and sand as above. Dolomite as above, 50%	5725 - 5737	Dolomite, light-brown, finely and medium-crystalline, sandy (fine-grained sand); minor Dolomite, light-brown and yellowish-brown, finely crystalline, sandy (angular fine-grained sand)
3670 - 3690	Sandstone and sand as above. Dolomite as above, minor		
3690 - 3700	Dolomite as above. Sandstone and sand as above, 20-30%	5737 - 5740	Sand, fine-grained, angular; minor sandy dolomite <i>TD samples 5740 feet</i>
3700 - 3740	Sand and sandstone as above, sandstone siliceous in part. Dolomite as above, 20-30%		
3740 - 3770	Sand and sandstone as above, sand fine to coarse grained (predominantly coarse), rounded. Dolomite as above, trace		
3770 - 3781	Sand as above. Arkose(?), minor amount <i>TD samples 3781 feet</i> <i>It is probable that samples from about 3650 feet have been boiler-housed</i>		
	Cuyahoga County Mayfield Heights Township Lot 20	Benedum-Trees Oil Co. #1 Franz & Eichenberg Unit Permit No. 117 Sample No. 268 Elevation (GL) 1017 feet	Defiance County Mark Township Section 11 S. E. Brown #1 Haver Permit No. 28 Sample No. 1061 Elevation (DF) 702 feet
	<i>Depth (ft)</i>	<i>Depth (ft)</i>	
5584 - 5600	<i>Samples above 5584 feet not examined</i> Limestone, medium- and dark-brown, lithographic, very finely crystalline. Limestone, very light-brownish-gray, micrograined to fine-grained	2228 - 2253	Limestone, very light- to dark-brown, lithographic and micrograined; slightly argillaceous in part
5600 - 5623	As above. Shale, dark-brown to dark-gray; trace	2253 - 2276	Dolomite, very light-brown, microcrystalline. KNOX DOLOMITE at 2260 feet (GRN)
5623 - 5646	As above. Siltstone, light-grayish-brown, dolomitic; trace	2276 - 2295	Dolomite, very light-gray, light-grayish-brown, brown, microcrystalline (dolosiltite) and very finely crystalline, slightly sandy (very fine-grained sand). Sandstone, light-grayish-green, very fine- and fine-grained, argillaceous; some medium-grained sand; grading into shale; trace
5646 - 5655	Limestone, medium- and dark-brown, lithographic. Shale, dark-brown; minor	2295 - 2229	Sandstone and shale as above, trace. Dolomite, very light-gray, brownish-gray, finely and medium-crystalline
5655 - 5669	Limestone, light- and medium-brown to grayish-brown, dense to fine-grained; conglomeratic in part. Dolomite, dark-brown, very finely crystalline. Shale, light- and medium-greenish-gray; slightly sandy in part. Sand, medium-grained, rounded; trace. Glenwood-Wells Creek at 5660? feet	2329 - 2367	Dolomite, very light-brownish-gray to gray, very finely to medium-crystalline (biohermal rock?)
5669 - 5680	As above, shale very dolomitic in part. Sandstone, light-brownish-gray, silty, dolomitic; trace	2367 - 2392	Dolomite, very light-gray, brown, microcrystalline (dolosiltite) to medium-crystalline
5680 - 5690	Shale as above. Sand, medium- to coarse-grained, rounded. Dolomite, very light-brown, very finely and finely crystalline, silty. Sandstone, light-greenish-gray and very light-gray, dolomitic, fine- to coarse-grained (poorly sorted); grains rounded; minor. KNOX DOLOMITE at 5688? feet. Shale cavings throughout Knox Dolomite	2392 - 2406	Dolomite, very light-brown, microcrystalline (dolosiltite) and very finely crystalline. Sand, fine- and medium-grained, rounded and frosted; trace
5690 - 5692	Dolomite, very light-gray, very light-yellowish-brown to brown, fine-grained, very finely crystalline, sandy (angular very fine-grained sand). Sand, medium-grained, rounded; heavy trace	2406 - 2420	Dolomite, very light-grayish-brown, microcrystalline (dolosiltite) and very finely crystalline. Sand as above, trace (may be from Sylvania Sandstone)
5692 - 5701	Dolomite as above	2420 - 2445	Dolomite as above, very light and light brown
5701 - 5715	Dolomite, light-gray, microcrystalline and very finely crystalline, silty. Dolomite, light-yellowish-gray and light-brown, finely crystalline, sandy (angular very fine-grained sand). Sandstone, very light-gray, very fine- and fine-grained, dolomitic; trace	2445 - 2566	Dolomite as above. Sand as above, trace to heavy trace
5715 - 5717	Sandstone, light-yellowish-gray, fine- to coarse-grained, very dolomitic; grading into sandy dolomite; degree of rounding increasing with increase of grain size	2566 - 2575	Dolomite as above, pinkish in part
5717 - 5723	Dolomite, light-yellowish-gray and light-brown, very finely to medium-crystalline, sandy (angular very fine- and fine-grained sand). Sand, fine-grained, subangular to rounded; trace	2575 - 2643	Dolomite, very light- and light-brown and grayish-brown, microcrystalline (dolosiltite) to finely crystalline
5723 - 5725	Sandstone, light-brown and light-yellowish-gray, fine-grained, dolomitic; grains angular.	2643 - 2654	Dolomite as above, pinkish in part
		2654 - 2689	Dolomite as above, pelletal (fine-grained, coated), very slightly glauconitic
		2689 - 2701	Dolomite as above, sandy (very fine-grained sand) and silty; hematitic in part
		2701 - 2737	Dolomite, very light-grayish-brown to medium-brown, microcrystalline (dolosiltite); silty and sandy as above. Sandstone, very light-gray, very fine-grained; pyritic in part; heavy trace
		2737 - 2775	Dolomite, very light-grayish-brown to medium-brown, microcrystalline (dolosiltite) to finely crystalline; coarse grained in part; silty in part
		2775 - 2802	Dolomite, very light- to medium-brown, microcrystalline (dolosiltite) and very finely crystalline; containing broken-up "ribbon" structures as found in southern Ohio
		2802 - 2829	Dolomite, very light- to medium-brown, microcrystalline (dolomiticrite) to very finely crystalline
		2829 - 2840	Siltstone, light-greenish-gray, very light-brownish- and pinkish- to yellowish-gray, sandy (very fine-grained sand), slightly glauconitic; siliceous in part. Shale, medium-

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APPENDIX A - SAMPLE DESCRIPTIONS

2840 - 2868	grayish-green, silty, micaceous; heavy trace. EAU CLAIRE FORMATION at 2828 feet (GRN) Sandstone, very fine-grained. Siltstone as above. Shale, medium-grayish-green and brownish-red, micaceous; heavy trace	3394 - 3522	grained, subrounded to rounded and frosted. MT. SIMON SANDSTONE at 3390 feet Sand, predominantly pink, fine- to coarse-grained, subangular to rounded and frosted, predominantly medium-grained
2868 - 2890	Sandstone, light-pink (salmon-colored) light-grayish-green, very fine-grained, glauconitic. Siltstone, light-grayish-green, micaceous; grading into shale; heavy trace	3522 - 3531	Sand as above. Shale, hematitic; heavy trace
2890 - 2903	Dolomite, light- and medium-brown and grayish-brown, microcrystalline (dolosiltite) to medium-crystalline; fine to coarse grained in part; "ribboned"; 70%. Sandstone as above, 30%	3531 - 3543	Sand as above
2903 - 2912	Dolomite as above, 30%. Sandstone, very light-pinkish-gray, light-greenish-gray, very fine-grained, slightly glauconitic; 70%. Shale, medium-gray, micaceous; trace	3543 - 3606	Sand as above, fine to very coarse grained TD 3606 feet
2912 - 2935	Sandstone, light-brown, very light-pinkish-gray, light-greenish-gray, very fine-grained, glauconitic; very dolomitic in part; laminations of gray shale	Delaware County Orange Township Lot 11, 3rd quarter	
2935 - 2948	Sandstone as above, very fine and fine grained, glauconitic; shaly partings	Chester Wise #1 Vance Permit No. 1 Sample No. 402 Elevation (G) 920 feet	
2948 - 2970	Sandstone as above, 90%. Dolomite, very light- and light-gray, medium-crystalline, glauconitic; 10%	Depth (ft)	
2970 - 2983	Sandstone, pink, light-gray, brown, very fine-grained, siliceous, glauconitic; in part dolomitic	2625 - 2640	Limestone, very light-grayish-brown to light-brown, lithographic to fine-grained; sucrosic dolomite
2983 - 3004	Sandstone as above. Shale, dark-green; trace to heavy trace	2640	Limestone, very light-brownish-gray, lithographic; dolomitized in part. Driller's Gull River
3004 - 3022	Sandstone, gray, brown, pink, very fine-grained, glauconitic; calcareous in part; dolomitic in part; pyritic in part; 95%. Shale, dark-green; 5%	2653	Limestone, very light-brownish-gray, light- and medium-brown, lithographic; some sucrosic dolomite
3022 - 3052	As above, shale in part reddish brown	2656 - 2662	Limestone as above, fossiliferous (ostracoda); argillaceous in part; 50%. Shale, light- and medium-greenish-gray, calcareous; 50%
3052 - 3069	Siltstone and very fine-grained sandstone, pink, light-gray, glauconitic; micaceous in part; 95%. Shale as above, micaceous; 5%	2662	Limestone, very light-brownish-gray, light-brown, lithographic
3069 - 3080	Siltstone and very fine-grained sandstone, pink, light- and medium-brownish-gray, slightly glauconitic; very dolomitic in part; 90%. Shale, reddish-brown, dark-green; 10%	2668	Limestone as above, 95%. Shale, light- and medium-grayish-green; 5%
3080 - 3108	Dolomite, pink, red, gray, brown, medium-crystalline, slightly glauconitic; in part hematitic; grading into siltstone; 90%. Shale as above, gray in part; 10%	2674	Dolomite, very light-grayish-brown, very finely crystalline; fine grained in part. Shale as above, 10%. Limestone, light-grayish-brown, very fine-grained, dolomitic, argillaceous; heavy trace. Sand, fine-grained, rounded and frosted; trace
3108 - 3120	As above, dolomite in part grading into very fine-grained sandstone	2679	Dolomite as above, medium brown in part. Shale as above, trace
3120 - 3130	Dolomite, sandstone, siltstone as above. Shale as above, heavy trace	2685	Shale, medium-grayish-green, light-gray, silty and sandy (medium-grained sand); in small part grading into silty sandstone; 90%. Dolomite as above, 10%
3130 - 3142	Sandstone, pink, pinkish- and greenish-gray, very fine- and fine-grained, glauconitic, slightly hematitic; 80%. Dolomite, white, medium-crystalline, very hematitic, slightly glauconitic; 20%. Shale, medium-green, reddish-brown; trace	2695	Shale as above, 70%. Dolomite as above, 30%. Sand, fine- and medium-grained, rounded and frosted; trace
3142 - 3168	Sandstone as above. Dolomite as above, heavy trace. Shale as above, trace	2700	As above
3168 - 3191	Rust-colored samples	2705	Dolomite, light-gray, very light-brown, very finely crystalline, silty; 90%. Shale, medium-grayish-green; 10%. Sand, very fine- to medium-grained, rounded and frosted; heavy trace
3191 - 3219	Sandstone, light-gray, greenish-gray, pinkish-gray, very fine- and fine-grained, glauconitic; 90%. Shale, medium-greenish-gray, gray, reddish-brown, micaceous; 10%	2707	Dolomite, very light- and light-gray and brownish-gray, microcrystalline (dolosiltite), sandy; grading into fine-grained sandstone. Shale as above, trace
3219 - 3270	Sandstone as above, friable. Shale as above, trace	2712	Sandstone, white, very fine- and fine-grained; some medium- and coarse-grained sand, rounded and frosted; 70%. Dolomite, very light-brown, microcrystalline (dolomiticrite and dolosiltite); 20%. Shale, light-green to grayish-brown, slightly glauconitic; 10%
3270 - 3350	Sand, colorless, pink, fine- and medium-grained; glauconite pellets. Sandstone as above, heavy trace. Shale as above, glauconitic; trace to heavy trace	2727	Dolomite, very light-brown, microcrystalline (dolosiltite) and very finely crystalline. KNOX DOLOMITE at 2727 feet
3350 - 3382	Sandstone, very light-pinkish-gray, colorless, light-greenish-gray, predominantly fine-grained, slightly glauconitic, very friable	2732	As above
3382 - 3394	Sandstone as above. Sand, fine- to coarse-	2741	As above
		2742	Dolomite as above
		2755	Dolomite as above, very light brownish gray, sucrosic in part
		2760	As above
		2765	As above
		2775	As above
		2780 - 2795	Dolomite, very light- and light-brown, microcrystalline (dolosiltite) to finely crystalline,

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