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COAL AND INDUSTRIAL MINERALS SECTION INDIANA GEOLOGICAL SURVEY DEPARTMENT OF NATURAL RESOURCES 611 NORTH WALNUT GROVE BLOOMINGTON, INDIANA 47401

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REMARKS	

## INDIANA GEOLOGICAL SURVEY INDUSTRIAL MINERALS SECTION CORE DESCRIPTION

Ohio and Indiana Stone Company

Farm: McCullough No. 2

Location: SE & NE & SE & NW & sec. 9, T. 13 N., R. 4 W.

Locality: About 1 mile north of Putnamville

Surface elevation: 748 feet

Total depth: 54.2 feet

Core description: Priscilla Nelson, July 1972

<u>Unit</u>	Description	Depth i	n feet to
1	No information	0.0	10.2
	Mississippian System Meramac Series		
	Ste. Genevieve Limestone Levias Member	15	
2	Limestone, light gray (N7), oolitic, iron stained along vertical fractures, massive, dense.	10.2	10.5
3	Limestone, pale yellow brown (10YR6/2) to light olive gray (5Y6/1), micritic, grainy texture, slightly fossiliferous, iron stain, pyritic, chert at 14.2', non-fossiliferous.	10.5	15.1
	Note: 1.1 ft. core missing from interval 10.2' to 14.1'.		
4	Limestone, very light olive gray (5Y8/1), micritic skeletal, chert present from 15.6 to 16.4, brown and gray mottled, slightly fossiliferous with fenestellates.	15.1	17.0
5	Limestone, light olive gray (5Y6/1), micritic, only locally skeletal, grainy texture, glauconitic, stylolitic, pyritic, few shale partings, medium bedded, slightly porous.	17.0	21.9
6	Limestone, light gray (N7), skeletal-micritic, extensively recrystallized, massive, not porous.	21.9	23.0
7	Limestone, as unit 5.	23.0	25.7
8	Limestone, nearly white (N9), skeletal, becoming pelletal-skeletal to micritic-pelletal with depth, many shale partings, medium to thinly bedded, slightly porous, stylolitic.	25.7	29.5
9	Limestone, nearly white, coarsely recrystallized micrite, very few fossils.	29.5	32.1
10	Limestone, very light olive gray (5Y7/1), skeletal, pelletal, in places, lithographic, very few shale partings, stylolites, basal l" green calcareous shale.	32.1	34.0
11	Limestone, olive gray (5Y5/1), top 2"-oolitic, then micritic-pelletal, grainy texture, few shale breaks, medium bedded, slightly porous.	34.0	35.2
12	Limestone, light olive gray (5Y7/1), micritic pelletal, grainy texture, stylolitic, with iron stain, few shale partings, glauconitic, medium bedded, slightly porous.	35.2	37.1

<u>Unit</u>	Description	Depth in from	feet to
13	Limestone, light olive gray (5Y7/1), micritic, skeletal, locally pelletal (38.6-38.8), chert beds at 38.0, stylolitic, lithographic, glauconitic, massive, not porous.	37.1	42.1
14	Limestone, light olive gray (5Y7/1), micritic-skeletal, grainy texture, many shale breaks, sparsely fossiliferous in zones of shale breaks, thinly bedded, moderately porous.	42.1	44.0
	Spar Mountain Member		
15	Limestone, olive gray (5Y4/2), detrital-skeletal, with sand size rounded chert and/or quartz grains, approximately 2% of rock, grainy texture.  Fredonia Member	44.0	47.6
16	Limestone, light olive gray (5Y7/1), micritic skeletal, chert scattered, glauconitic, pyritic, numerous shale partings, thinly bedded, moderately porous.	47.6	54.2

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Ohio and Indiana Stone Company Farm: McCullough No. 2

Location: SE¼NE¼SE¼NW¼ sec. 9, T. 13 N., R. 4 W.

Locality: About 1 mile north of Putnamville

Surface elevation: 748 feet Total depth: 54.2 feet

Core description: Priscilla Nelson, July 1972

Unit	Description	Depth	la .
1	No information	0.0	10.2
	Mississippian System	,	
,	Meramac Series		
	Ste. Genevieve Limestone		
	Levias Member		
2	Limestone, light gray (N7), oolitic, iron stained along vertical fractures, massive, dense.	10.2	10.5
3	Limestone, pale yellow brown (10YR6/2) to light olive gray (5Y6/1), micritic, grainy texture, slightly fossiliferous, iron stain, pyritic, chert at 14.2', non-fossiliferous.	10.5	15.1
	Note: 1.1 ft. core missing from interval 10.2' to 14.1'.		
4	Limestone, very light olive gray (5Y8/1), micritic skeletal, chert present from 15.6 to 16.4, brown and gray mottled, slightly fossiliferous with fenestellates.	15.1	17.0
5	Limestone, light olive gray (5Y6/1), micritic, only locally skeletal, grainy texture, glauconitic, stylolitic, pyritic, few shale partings, medium bedded, slightly porous.	17.0	21.9
6	Limestone, light gray (N7), skeletal-micritic, extensively recrystallized, massive, not porous.	21.9	23.0
7	Limestone, as unit 5.	23.0	25.7
8	Limestone, nearly white (N9), skeletal, becoming pelletal-skeletal to micritic-pelletal with depth, many shale partings, medium to thinly bedded, slightly porous, stylolitic.	25.7	29.5
9	Limestone, nearly white, coarsely recrystallized micrite, very few fossils.	29.5	32.1
10	Limestone, very light olive gray (5Y7/1), skeletal, pelletal, in places, lithographic, very few shale partings, stylolites, basal 1" green calcareous shale.	32.1	34.0
11	Limestone, olive gray (5Y5/1), top 2"-oolitic, then micritic-pelletal, grainy texture, few shale breaks, medium bedded, slightly porous.	34.0	35.2
12	Limestone, light olive gray (5Y7/1), micritic pelletal, grainy texture, stylolitic, with iron stain, few shale partings, glauconitic, medium bedded, slightly porous.	35.2	37.1
13	Limestone, light olive gray (5Y7/l), micritic, skeletal, locally pelletal (38.6-38.8), chert beds at 38.0, stylolitic, lithographic, glauconitic, massive, not porous.	37.1	42.1

14	Limestone, light olive gray (5Y7/1), micritic-skeletal, grainy texture, many shale breaks, sparsely fossiliferous in zones of shale breaks, thinly bedded, moderately porous.	42.1	44.0
	Spar Mountain Member		
15	Limestone, olive gray (5Y4/2), detrital-skeletal, with sand size rounded chert and/or quartz grains, approximately 2% of rock, grainy texture.	44.0	47.6
	Fredonia Member		
16	Limestone, light olive gray (5Y7/1), micritic skeletal, chert scattered, glauconitic, pyritic, numerous shale partings, thinly bedded, moderately porous.	47.6	54.2

## INDIANA GEOLOGIGAL SURVEY INDUSTRIAL MINERALS SECTION CORE DESCRIPTION

Ohio and Indiana Stone Co.

Farm: McCullough No. 3

Location: NE% SE% SE% NW% sec. 9, T. 13 N., R. 4 W.

Locality: About 0.5 miles north of Putnamville

Surface elevation: 762 feet

Total depth: 75.0 feet

Core description: Priscilla Nelson, September 1972

<u>Unit</u>	Description	Depth in from	feet to
1	No information	0.0	19.7
2	Mississippian System  Meramac Series  Ste. Genevieve Limestone  Levias Member  Limestone, lt. olive gray (5Y6/1), skeletal micritic, with lt. green-gray shale breaks, pyritic, med. to thinly bedded, no stylolitics, weathered to a limonitic yellow at top.	19.7	22.2
	NOTE: 0.8' missing from interval 19.7' to 32.5',		
3	Limestone, lt. olive gray (5Y6/1), skeletal and oolitic, fewer shale breaks than above, pyritic, grainy to crystalline texture, no stylolités.	22.2	27.4
<b>L</b> <sub>4</sub>	Limestone, lt. olive gray (5Y6/1), oolitic skeletal, lithographic texture common, pyritic.	27.4	33.3
5	Limestone, 1t. olive gray (5Y6/1), oolites, rock breaks around grains. Stylolitic, no shale breaks, but bands of argillaceous material common, post depositional slumping abundant. Becomes skeletal with depth.	33.3	37.3
6	Spar Mtn. Member Greenish gray (5GY6/1), mudstone, non-fissile, with brecciated intraclasts of colitic limestone (lt. olive gray, 5Y6/1).	37.3	38.2
7	Limestone, lt. olive gray (5Y6/1), skeletal oolitic, lithographic texture. At 39.1 to 39.6. v. argillaceous with 2% quartz and chert grains. At 40.0-40.8, massive lt. and dk. chert, non-fossiliferous, ramiform.	38.2	41.2
8.	Fredonia Member Limestone, lt. olive gray (5Y6/1), pelletal-skeletal, all material of similar grain size, solutional features in top foot, brown and black fossiliferous chert (nodular) at 43.8-44.3', moderately porous, med. to thinly bedded.	41.2	44.9
9	Limestone, lt. olive gray (5Y6/1), micritic, but burrowed with skeletal and oblitic material as burrow fillings. Styl6litic, bryozoans abundant. Chert at 46.1 and 46.6'		47.2

<u>Unit</u>	Description	Depth in from	feet to
10	Limestone, lt. olive gray (5Y6/1), skeletal shale breaks, from 49.4 to 50.4, grainy textured, recrystallized, sl. pyritic, med. bedded to thinly bedded in areas of shale breaks.	47.2	51.5
1.1	Limestone, lt. olive gray (5Y6/1), micritic and skeletal skeletal in places, stylolitic, sl. porous, thinly bedded, shale breaks concentrated near stylolitics.	51.5	55.5
12	Limestone, lt. olive gray (5Y6/1), skeletal med. bedded, stylolitic, very few shale breaks, crystalline texture, sl. porous.	55.5	62.1
13	Limestone, lt. olive gray (5Y6/1), micritic skeletal lithographic texture, med. bedded, few stylolitics, no shale breaks, sl. porous, no pyrite.	62.1	63.4
14	Dolomite, olive gray (544/1), fractured with calcite fillings, vuggy, pyritic, sl. porous, sugary texture microscopically; massive.	63.4	64.3
15	Limestone, lt. olive gray (5Y6/1), pelletal, microskeletal to 65.9', then micritic to 66.4', stylolitic, no shale breaks, minor scattered pyrite.	64.3	66.4
16	Dolomite, olive gray (514/1), sugary, dense, massive, sl. porous, pyritic, iron stain along fracture surfaces.	66.4	66.7
17	St. Louis Limestone Limestone, lt. olive gray (5Y6/1), pelletal, skeletal, pyritic, no shale breaks, med. bedded (as unit 15).	66.7	68.3
18	Limestone, lt. olive gray (5Y6/1), skeletal (fragmented). some chert replacement of solitary corals, shale breaks common, medium bedded, sl. to med. porous.	68.3	69.4
19	Limestone, lt. olive gray (546/1), micritic-lithographic, with bryozoan material scattered, no shale breaks until base of unit, med. bedded.	69.4	70.3
20	Limestone, lt. olive gray (5Y6/1), micritic and skeletal lithographic in places, common is bedded chert, fossiliferous (bryozoans) and lt. and dk. gray in color.	70.3	75.0

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Ohio and Indiana Stone Co. Farm: McCullough No. 3

Location: NE¼SE¼SE¼NW¼ sec. 9, T. 13 N., R. 4 W.

Locality: About 0.5 miles north of Putnamville

Surface elevation: 762 feet Total depth: 75.0 feet

Core description: Priscilla Nelson, September 1972

Unit	Description	Depth	
1	No information	0.0	19.7
	Mississippian System		
	Meramac Series	<u>.</u>	
.0	Ste. Genevieve Limestone	,	
	Levias Member	-	
2	Limestone, lt. olive gray (5Y6/1), skeletal micritic, with lt. green-gray shale breaks, pyritic, med. to thinly bedded, no stylolitics, weathered to a limonitic yellow at top.	19.7	22.2
	Note: 0.8' missing from interval 19.7' to 32.5'.		
3	Limestone, lt. olive gray (5Y6/l), skeletal and oolitic, fewer shale breaks than above, pyritic, grainy to crystalline texture, no stylolites.	22.2	27.4
4	Limestone, lt. olive gray (5Y6/1), oolitic skeletal, lithographic texture common, pyritic.	27.4	33.3
5	Limestone, lt. olive gray (5Y6/1), oolites, rock breaks around grains. Stylolitic, no shale breaks, but bands of argillaceous material common, post depositional slumping abundant. Becomes skeletal with depth.	33.3	37.3
	Spar Mtn. Member		
6	Greenish gray (5GY6/1), mudstone, non-fissile, with brecciated intraclasts of oolitic limestone (lt. olive gray, 5Y6/l).	37.3	38.2
7	Limestone, lt. olive gray (5Y6/l), skeletal oolitic, lithographic texture. At 39.1 to 39.6. v. argillaceous with 2% quartz and chert grains. At 40.0-40.8, massive lt. and dk. chert, non-fossiliferous, ramifform.	38.2	41.2
	Fredonia Member		
8	Limestone, lt. olive gray (5Y6/l), pelletal-skeletal, all material of similar grain size, solutional features in top foot, brown and black fossiliferous chert (nodular) at 43.8-44.3', moderately porous, med. to thinly bedded.	41.2	44.9
9	Limestone, lt. olive gray (5Y6/l), micritic, but burrowed with skeletal and oolitic material as burrow fillings. Stylolitic, bryozoans abundant. Chert at 46.l and 46.6'.	44.9	47.2

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10	Limestone, lt. olive gray (5Y6/l), skeletal shale breaks, from 49.4 to 50.4, grainy textured, recrystallized, sl. pyritic, med. bedded to thinly bedded in areas of shale breaks.	47.2	51.5
11	Limestone, lt. olive gray (5Y6/l), micritic and skeletal in places, stylolitic, si. porous, thinly bedded, shale breaks concentrated near stylolitics.	51.5	55.5
12	Limestone, lt. olive gray (5Y6/l), skeletal med. bedded, stylolitic, very few shale breaks, crystalline texture, si. porous.	55.5	62.1
13	Limestone, lt. olive gray (5Y6/l), micritic skeletal lithographic texture, med. bedded, few stylolitics, no shale breaks, sl. porous, no pyrite.	62.1	63.4
14	Dolomite, olive gray (5Y4/1), fractured with calcite fillings, vuggy, pyritic, sl. porous, sugary texture microscopically; massive.	63.4	64.3
15	Limestone, lt. olive gray (5Y6/1), pelletal, microskeletal to 65.9', then micritic to 66.4', stylolitic, no shale breaks, minor scattered pyrite.	64.3	66.4
16	Dolomite, olive gray (5Y4/1), sugary, dense, massive, sl. porous, pyritic, iron stain along fracture surfaces.	66.4	66.7
	St. Louis Limestone		
17	Limestone, lt. olive gray (5Y6/1), pelletal, skeletal, pyritic, no shale breaks, med. bedded (as unit 15).	66.7	68.3
18	Limestone, lt. olive gray (5Y6/1), skeletal (fragmented) some chert replacement of solitary corals, shale breaks common, medium bedded, sl. to med. porous.	68.3	69.4
19	Limestone, lt. olive gray (5Y6/1), micritic-lithographic, with bryozoan material scattered, no shale breaks until base of unit, med. bedded.	69.4	70.3
20	Limestone, lt. olive gray (5Y6/1), micritic and skeletal lithographic in places, common is bedded chert, fossiliferous (bryozoans) and lt. and dk. gray in color.	70.3	75.0
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