County...PUTNAM.....
T....16 N.....R....5 W.....
Sec.....SE NE SW 8.....
Other Survey.....

Locality 39

Quarry or Pit...X..Core.....Dim.....Other....
Name..Russellville Section.....
Former Names.....
.....
Operator.....
Former Operators.....

POSTAGE

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

MEMORANDUM REPORTS BY:

	Name	Date
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REMARKS

RUSSELLVILLE SECTION

Locality 39

The quarry of the Russellville Stone Company is located in adjacent parts of the NW¼SE¼ and NE¼SW¼ sec. 8, T. 16 N., R. 5 W., 1 mile south of Russellville, in Putnam County. The measured section given below was obtained from the SE¼NE¼SW¼ sec. 8. The top of the measured section is approximately 793 feet above sea level.

Stratigraphic section measured in the Russellville quarry

	Thin Section	Feet
Blue River Group:		
St. Louis Limestone:		
13. Crystal-calcilutite: Grayish-brown, granular in appearance, medium-bedded, pyritic		2.1
12. Crystal-calcilutite: Blue-gray, granular in appearance, irregularly bedded, somewhat color banded, pyritic.		2.3
11. Crystal-calcilutite: Gray, weathered tan, has a granular appearance and is fine-grained fossil-arenaceous, thick-bedded, dense. Thin, irregular bands of chert nodules are found 0.6-and 1.0-foot above base		2.7
10. Crystal-calcilutite: Gray, nearly lithographic in texture, dense, thin-bedded. Contains shale partings		1.7
9. Crystal-calcilutite: Tannish-gray, has a granular appearance and is fossil-arenaceous, thick-bedded, dense, and fractured. Faintly banded by laminations composed of arenaceous fossils and a few quartz grains.		2.1
8. Crystal-calcilutite: Gray to light-gray, has a granular appearance and is medium-grained fossil-arenaceous, medium-bedded, dense. Contains arenaceous quartz grains, pebbles of limestone and possibly quartz; quartz is subhedral to anhedral	S54-16	1.9
7. Crystal-calcilutite: Gray granular to lithographic in texture, banded, locally brecciated, argillaceous. A few thin shaly partings are found in the upper part	S54-15	2.3

	Thin Section	Feet
6. Crystal-dololutite: Mottled light- and dark-gray, very fine-grained granular texture, contains arenaceous grains of rounded quartz.	S54-14	3.2
Thickness of exposed St. Louis Limestone		17.4
Sanders Group:		
Salem Limestone:		
5. Calcarenite: Gray to tannish-gray, very fine-grained, massive-bedded, dense. Pods or small nodules of silicified fossil-arenite occur locally and low in unit.	S54-13	6.6
4. Calcarenite: Dark-gray to tannish-gray, fine-grained, slightly coarser near top, dense, pyritic. Some silicification of arenaceous fossils has taken place. Thin, black fissile argillutite partings are between the thin beds	S54-17	3.4
3. Calcareous argillutite: Black, fissile.		0.2
2. Calcarenite: Dark-gray, medium-grained, dense. Some arenaceous fossils are silicified. A black, fissile argillutite, similar to unit 3 above, is at the base. Rock of unit adjacent to both argillutites is shaly crystal-calcilutite.	S54-37	3.2
Total thickness of Salem Limestone		13.4
Harrodsburg Limestone:		
1. Calcarenite: Gray to dark-gray, fine- to medium-grained, dense. The thin beds of this unit contain small silicified grains and are separated by black, fissile shaly partings	S54-39	8.0
Total thickness of measured section.		38.8

Russellville Section
Locality 39

The quarry of the Russellville Stone Company is located in adjacent parts of the NW¼SE¼ and NE¼SW¼ sec. 8, T. 16 N., R. 5 W., 1 mile south of Russellville, in Putnam County. The measured section given below was obtained from the SE¼NE¼SW¼ sec. 8. The top of the measured section is approximately 793 feet above sea level.

Unit	Description	Thick-ness	Sample
	Blue River Group:		
	St. Louis Limestone:		
13	Crystal-calcilutite: Grayish-brown, granular in appearance, medium-bedded, pyritic	2.1	
12	Crystal-calcilutite: Blue-gray, granular in appearance, irregularly bedded, somewhat color banded, pyritic	2.3	
11	Crystal-calcilutite: Gray, weathered tan, has a granular appearance and is fine-grained fossil-arenaceous, thick-bedded, dense. Thin, irregular bands of chert nodules are found 0.6-and 1.0-foot above base	2.7	
10	Crystal-calcilutite: Gray, nearly lithographic in texture, dense, thin-bedded. Contains shale partings	1.7	
9	Crystal-calcilutite: Tannish-gray, has a granular appearance and is fossil-arenaceous, thick-bedded, dense, and fractured. Faintly banded by laminations composed of arenaceous fossils and a few quartz grains	2.1	
8	Crystal-calcilutite: Gray to light-gray, has a granular appearance and is medium-grained fossil-arenaceous, medium-bedded, dense. Contains arenaceous quartz grains, pebbles of limestone and possibly quartz; quartz is subhedral to anhedral	1.9	S54-0016
7	Crystal-calcilutite: Gray granular to lithographic in texture, banded, locally brecciated, argil-laceous. A few thin shaly partings are found in the upper part	2.3	S54-0015
6	Crystal-dololutite: Mottled light- and dark-gray, very fine-grained granular texture, contains arenaceous grains of rounded quartz	3.2	S54-0014
	Thickness of exposed St. Louis Limestone	17.4	
	Sanders Group:		
	Salem Limestone:		
5	Calcarenite: Gray to tannish-gray, very fine-grained, massive-bedded, dense. Pods or small nodules of silicified fossil-arenite occur locally and low in unit	6.6	S54-0013
4	Calcarenite: Dark-gray to tannish-gray, fine-grained, slightly coarser near top, dense, pyritic. Some silicification of arenaceous fossils has taken place. Thin, black fissile argillutite partings are between the thin beds	3.4	S54-0017
3	Calcareous argillutite: Black, fissile	0.2	

2	Calcarenite: Dark-gray, medium-grained, dense. Some arenaceous fossils are silicified. A black, fissile argillutite, similar to unit 3 above, is at the base. Rock of unit adjacent to both argillutites is shaly crystal-calcilutite.	3.2	S54-0037
	Total thickness of Salem Limestone	13.4	
	Harrodsburg Limestone:		
1	Calcarenite: Gray to dark-gray, fine- to medium-grained, dense. The thin beds of this unit contain small silicified grains and are separated by black, fissile shaly partings	8.0	S54-0039
	Total thickness of measured section	38.8	