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# LITHOLOGIC CHARACTER OF THE ST. PETER SANDSTONE AND THE EVERTON FORMATION IN THE BUFFALO RIVER VALLEY NEWTON COUNTY, ARKANSAS

By Ernest E. Glick and Sherwood E. Frezon

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# LITHOLOGIC CHARACTER OF THE ST. PETER SANDSTONE AND THE EVERTON FORMATION IN THE BUFFALO RIVER VALLEY NEWTON COUNTY, ARKANSAS

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#### INTRODUCTION

Since 1949, the U. S. Geological Survey, with the informal cooperation of the Division of Geology, Arkansas Resources and Development Commission, has been engaged in stratigraphic investigations in northern Arkansas to aid in the search for oil and gas in the Arkansas Valley. These investigations include surface and subsurface studies, some of which have been completed and published (Lantz, 1950; Maher and Lantz, 1952, 1953). 1 Work currently in progress includes the preparation of subsurface cross sections of the pre-Atoka rocks in the Arkansas valley, and areal mapping in the Mount Judea and Snowball quadrangles of Searcy and Newton Counties. This report presents and discusses the detailed stratigraphic sections used in correlating and mapping the St. Peter sandstone and Everton formation in the Mount Judea and Snowball quadrangles.

The detailed descriptions of surface sections in this report are based on rock samples collected in the Buffalo River valley in Newton County, Ark., at the localities shown in figure 1. The sections were measured in the field by tape and hand level; all units were measured perpendicular to the bedding. Field descriptions were made with special emphasis on bedding and weathering, and representative samples were taken of each lithologic unit for laboratory examination and lithologic description. The samples were crushed, washed, and examined in the office with a binocular microscope. Field and laboratory data were then combined into the detailed sections included in this report.

The terminology used in the descriptions of the samples is essentially that used by most geologists in the midcontinent region, making microscopic examinations of well samples. A limestone or dolomite is called "crystalline" if the texture is rough and crystal faces can be seen, "granular" if the texture is rough and crystal faces cannot be seen, and "dense" if the texture is smooth. A carbonate rock that leaves a large residue of silt after digestion in acid is called "silty"; one containing indeterminate, round or ovate, particles about the size of oolites is termed "oolitoid." Sandstone with siliceous cement is called "quartzitic" if it breaks across the sand grains. The terms given below are used in accordance with the Wentworth Grade Scale:

Silt, 0.0039 to 0.062 mm in diameter. Very fine grained sandstone, 0.062 to 0.125 mm in diameter. Fine-grained sandstone, 0. 125 to 0. 25 mm in diameter. Medium-grained sandstone, 0. 25 to 0. 50 mm in diameter. Coarse-grained sandstone, 0. 50 to 1. 00 mm in diameter. Very coarse grained sandstone, 1. 00 to 2. 00 mm in diameter.

Because the sand in the carbonate rocks and the sandstones is composed dominantly of frosted subrounded to rounded quartz grains, these characteristics are not included in the detailed descriptions. The approximate size of the sand grains is given for the sandstones but not for the carbonate rocks. In general, both fine- and mediumsized grains are present in the sandy carbonate rocks.

The bedding is described as follows:

Fissile, less than 1/16 inch thick. Platy, 1/16 to 1/2 inch thick. Very thin bedded, 1/2 to 2 inches thick. Thin-bedded, 2 to 4 inches thick. Medium-bedded, 4 to 12 inches thick. Thick-bedded, 12 to 36 inches thick. Massive, more than 36 inches thick.

The term "cryptozoon structure" refers to any structure which suggests that a unit is in part algal in origin. This includes a distinctive type of wavy banding in limestone and dolomite beds as well as preserved colonies of calcareous algae in limestone beds. In the past these algal colonies have been referred to Cryptozoon sp.

The National Research Council rock-color chart was used for color names in the descriptions. Colors obviously due to weathering were not described.

Colored log strips on the scale of 10 feet to the inch were prepared from the detailed lithologic descriptions of this report. A detailed cross section was constructed from information on these log strips and was generalized in the form of figure 2. This figure shows the lithologic character of the St. Peter sandstone and members of the Everton formation in ten sections along the Buffalo River designated A to J in figure 1. The datum used in allning these sections is the top of the basal sandstone of the Jasper member of the Everton formation except in section A, where this unit is absent. Section A is alined on the top of the Newton sandstone member.





Figure 2. - Cross section showing the lithologic character of the St. Peter sandstone and Everton formation along the Buffalo River, Newton County, Ark.



The authors wish to thank H. D. Miser, of the U. S. Geological Survey, for giving generously of his time and experience in discussing some of the problems encountered, and N. F. Williams, director, Division of Geology, Arkansas Resources and Development Commission, who provided base maps and extended many courtesies. Section E of this report is a part of a previously published section at Carver, Ark. (Maher and Lantz, 1952, p. 10-12).

## EVERTON FORMATION (MIDDLE ORDOVICIAN)

A Middle Ordovician sequence of limestone. sandstone, and dolomite beds, about 405 feet thick, separates the Powell dolomite (Lower Ordovician) and the St. Peter sandstone (Middle Ordovician) near Mount Hersey in the Yellville quadrangle (section J, figs. 1 and 2). McKnight (1935, pl. 3) mapped this sequence as the Everton formation and noted that the upper limestone beds are lithologically identical with the Jasper limestone mapped in the adjacent Harrison quadrangle by Purdue and Miser (1916, p. 8) as a separate formation. He also suggested that detailed stratigraphic work in the Buffalo River valley south of the Harrison and Yellville quadrangles would show that the Jasper limestone should be considered as a member of the Everton. The writers, who have assisted in the mapping of the Buffalo River valley immediately south of the Harrison and Yellville quadrangles (fig. 1), find that the Jasper limestone can be traced into the upper part of the Everton formation as suggested by McKnight. They also believe that, although the Jasper limestone is a mappable unit in the Harrison quadrangle, it is not a mappable unit farther east because the base becomes indistinct owing to gradation into underlying beds, and the upper limestones that typify the unit at Jasper grade laterally into dolomite beds (fig. 2). Therefore the Jasper limestone is treated in this report as the Jasper member of the Everton formation. The chart on page 5 shows the classification used in this report and the changes in names and correlations that have been made in the last four decades.

The Everton formation is widely distributed over northern Arkansas and is well exposed in the cliffs along the Buffalo River in northern Newton and Searcy Counties. The name is taken from 'the town of Everton in the Yellville quadrangle (Ulrich, 1911, pl. 27), where only part of the formation is exposed. The most complete exposure in the area of this investigation is at the locality of section J. (See fig. 1). There the formation is about 405 feet thick and is composed of four lithologic units. In ascending order these units are (1) a sequence of dolomite and sandstone, 245 feet exposed, base covered, (2) the Newton sandstone member, 8 feet thick, (3) a sequence of dolomite and sandstone, 90 feet thick, and (4) the Jasper member, 55 feet thick. The upper part of the Powell dolomite and the lower 10 feet or less of the Everton formation are covered at this locality; the contact of the two formations, which according to McKnight (1935, p. 40) is unconformable, is about 55 feet above river level. The base of the Everton formation is below river level at the localities of the other sections described in this report.

The Everton formation is unconformably overlain by the St. Peter sandstone and the basal sandstone

member of the Boone formation along the line of these sections. The St. Peter sandstone overlies the Jasper member of the Everton formation in sections  $\underline{D}$  through J. At each of these localities the St. Peter rests upon an irregular wavy surface. This irregularity is most striking in section J where 4 feet of relief is present on the top of the limestone beds in a lateral distance of 25 feet. The basal sandstone member of the Boone formation overlies the Everton formation in sections A, B, and C. It rests on beds older than Jasper in section B, and on a thin remnant of Jasper in section E, and on a thin remnant of Jasper in section C. These irregularities are attributable mostly to truncation of local structures before deposition of the Boone formation.

#### Beds below the Newton sandstone member

Beds of the Everton formation below the Newton sandstone member are partially exposed in sections A, C, F, G, H, and J. The exposure of this sequence in section J is 245 feet thick. These beds exhibit a limy facies in section A which grades eastward into a dolomitic facies in section G to J. (See fig. 2.) The limy facies consists of light olivegray oolitic ostracodal dense limestone interbedded with limy sandstone; the dolomitic facies is composed of brownish-gray finely to medium-crystalline dolomite interbedded with dolomitic sandstone. The limy facies locally contains preserved algal colonies; both facies locally exhibit wavy banded beds which are probably algal in origin. A loosely coiled cephalopod(?) and what seem to be molds of small pelecypod valves were found in the lower part of the limy facies of section G. In general fossils are poorly preserved in the dolomitic facies. The Kings River sandstone member and the Sneeds limestone lentil, which compose the lower part of the Everton formation in the Harrison quadrangle (Purdue and Miser, 1916, p. 5), are not identifiable in section J, a nearly complete exposure of this sequence.

#### Newton sandstone member

The Newton sandstone member of the Everton formation was named by McKnight (1935, p. 39) for its prominence in northern Newton County, Ark. Previously this sandstone had been mapped as the St. Peter sandstone in the Eureka Springs and Harrison quadrangles by Purdue and Miser (1916, p. 7). According to Purdue and Miser, the sandstone thins eastward from 150 feet in northwestern Newton County to 15 feet in northeastern Newton County. This eastward thinning is also present in the Buffalo River valley (fig. 2) where the Newton sandstone member thins from about 65 feet in section A to about 8 feet in section J. Much of this thinning seems to be the result of the basal beds of the sandstone grading laterally into limestone and dolomite beds.

The massive Newton sandstone member forms a prominent cliff along the Buffalo River in central Newton County; however, in the eastern half of the area of this study, it is thin and hardly distinguishable from other sandstones of the Everton formation. It is composed primarily of rounded and frosted fine to medium sand grains bound by a small amount of limy cement. The only fossiliferous bed found in the

Present report (Circ. 249)		McKnight, E. T., 1935, Zinc and lead deposits of northern Arkansas: U. S. Geol. Survey Bull. 853.			Purdue, A. H., and Miser, H. D., 1916, U. S. Geol. Survey Geol. Atlas, Eureka Springs-Harrison folio (no. 202).			
St. Pe	ter sandstone.	St.	Peter sandstone.	(Ge	enerally absent). <sup>1</sup>			
Jasper member.			sper limestone. <sup>2</sup>	Jasper limestone. <sup>2</sup>				
	Dolomite and sandstone.			Joa	achim limestone. <sup>3</sup>			
1 formation	Newton sandstone member.	ion	Newton sandstone member.	St.	Peter sandstone. <sup>3</sup>			
Evertor		verton format		u				
Limestone, dolomite, and sandstone.		Ξ.			Kings River sandstone member.			
				Ev	Sneeds limestone lentil.			
	Powell dolomite.		Powell dolomite.		Powell limestone.			

<sup>1</sup>Section <u>D</u> of the present report indicates that a thin remnant of true St. Peter sandstone is present locally in the Harrison quadrangle. <sup>2</sup>McKnight (1935, table facing p. 16) states: "Future work may show that the Jasper limestone should be classed as a part of the Everton formation." <sup>3</sup>McKnight, (1935, table facing p. 16) states: "The so-called 'Joachim limestone' and so-called 'St. Peter sandstone' of the Eureka Springs and Harrison quadrangles are equivalent to the upper portion of the Everton formation of the Yellville quadrangle." member is a thin ostracodal limestone in the middle of the unit in section A.

### Beds between the Newton sandstone and Jasper members

A sequence of dolomite, sandy dolomite, and dolomitic sandstone beds, about 90 feet thick, conformably overlies the Newton sandstone member. This dolomitic sequence becomes increasingly sandy toward the top and grades into the limy basal sandstone of the Jasper member. The contact with the overlying Jasper member, which is drawn arbitrarily at the top of the dolomitic beds, does not follow bedding planes. The character of the entire unit changes little within the area although individual beds do not remain distinctive when traced laterally. A few poorly preserved ostracods were found.

#### Jasper member

The Jasper member is composed of two major lithologic units, a basal limy sandstone unit and an overlying sandy limestone or sandy dolomite unit. The contact between the two units is so clearly defined by a sharp lithologic change from a sandstone to a massive limestone and dolomite bed that this horizon has been used as a datum for the cross section of figure 2.

In section <u>B</u>, the basal sandstone of the Jasper member is 14 feet thick and composed entirely of friable limy sandstone beds; in section <u>D</u>, the basal sandstone of the Jasper is 35 feet thick and includes five thin ostracodal limestone beds. Eastward from section <u>D</u>, the lower part of the basal sandstone of the Jasper grades into the underlying dolomitic beds. The basal sandstone is represented in section <u>J</u> by only 11 feet of limy sandstone and thin limestone beds.

Purdue and Miser (1916, p. 8) described the upper unit of the Jasper as a dense limestone "interbedded with a subordinate though considerable amount of sandstone." Much of the limestone is oolitic and some of it is sandy. Eastward from the type area, this limy facies (sections <u>B</u> and <u>D</u>) grades into a dolomitic facies (sections <u>E</u>, F, G, H, and I) and back into a limy facies (section <u>J</u>). Because individual sandstone beds of the Jasper can be correlated throughout this area, it is evident that the limy and the dolomitic facies are parts of the same unit.

The Jasper member is the most fossiliferous part of the Everton formation. Ostracods are abundant in most of the limestone beds, and cephalopods, gastropods, pelecypods, trilobites, worm borings, and fossil algae have been found in certain localities. Fossils in the dolomite beds of the Jasper are generally few and poorly preserved.

#### ST. PETER SANDSTONE

Adams and Ulrich (1905, p. 3) introduced the name St. Peter sandstone, first used by Owen (1847, p. 169) in Minnesota, into the geologic literature of the Ozark region. In mapping the Eureka Springs and Harrison quadrangles, Purdue and Miser (1916, p. 7) applied the name to a massive sandstone which was thought to be correlative with the St. Peter of the Yellville district to the east. Croneis (1930) and Giles (1930) followed the correlations of Purdue and Miser in this area. Later McKnight (1935, p. 39) showed that the massive sandstone mapped by Purdue and Miser in the Eureka Springs and Harrison quadrangles is not correlative with the St. Peter of the Yellville quadrangle but is a member (Newton sandstone) of the Everton formation. (See chart.)

The St. Peter sandstone is exposed in the valley of the Buffalo River in northeastern Newton and northern Searcy Counties, Ark. It is present in sections D to J of this report, ranging in thickness from a fraction of a foot to 73 feet (section H). The St. Peter sandstone appears to rest unconformably on the Everton formation. No angular discordance between the formations was noted, but the contact is undulating-the lowermost sand beds of the St. Peter dip into the depressions and lap over the higher parts of the uneven surface of the Everton. The St. Peter is unconformably overlain by the Plattin limestone. Where the Plattin limestone has been cut out, the Boone formation overlies the St. Peter with evident angular unconformity. This angular unconformity is best seen in the area of section D.

The St. Peter sandstone is so poorly exposed in the Buffalo River valley that no complete section could be obtained. The maximum thickness of the St. Peter in the area investigated is 73 feet in section H, but a considerable part of this thickness could not be sampled or described.

The base of the formation in section H is a fine-to medium-grained sandstone bed, 6 feet 9 inches thick, containing thin quartzitic layers. The sand grains are partly rounded and frosted and partly angular as a result of secondary quartz growth. Topographically, this basal unit forms a low bench in all the sections from D to J. Above the basal sandstone of section H lies a covered interval, 58 feet thick, which has its counterpart in sections E,  $\mathbf{F}$ ,  $\mathbf{G}$ , and  $\mathbf{J}$ . Scattered exposures in sections  $\mathbf{E}$ , , and G indicate that the interval consists of a sequence of soft dolomitic or limy silty sandstone and silty sandy dolomite beds. Ostracod molds were found in this unit in sections E and F. A bed of sandstone about 8 feet thick is present above the covered interval in section  $\underline{H}$ , but apparently it is not present in any of the other sections. This bed is similar in lithology and outcrop to the lower sandstone of the formation. The presence of upper and lower sandstone units separated by a thick covered interval suggests that the three lithologic units in the St. Peter noted by McKnight (1935, p. 43) in the Yellville quadrangle may be present in section H.

DETAILED SECTIONS OF THE ST. PETER SANDSTONE AND EVERTON FORMATION ALONG THE BUFFALC RIVER, NEWTON COUNTY, ARK.

A. Section of the Everton formation, 200 yards			न	۶t	ir.
upstream from the north end of the Buffalo	Ri	ver	Ordovician rocks -Continued	_	_
bridge on State Route 7 in the NWINE sec	:. 7	2	Everton formation -Continued		
• T. 16 N., R., 20 W., Newton County, Ark	<b>K.</b> .	Base	Dolomite, medium-bedded,		
of section at river level.			light brownish-gray, finely		
			crystalline; contains small		
Carboniferous (Mississippian) rocks:			dolomite pebbles in upper		
Boone formation:			2 inches, and scattered sand	0	0
St. Joe limestone member.			grains throughout	4	4
Basar sandstone member.	7+	in	light brownish-gray very		
Ordovician rocks:			dolomitic very fine to		
Everton formation:			medium-grained	1	8
Dolomite, medium-bedded,			Dolomite, medium-bedded,		
brownish-gray, sandy, very			dark-gray, very finely		
finely granular;			granular; contains scattered		
contains some dolomite			sand grains and a few white		
stringers without sand;			coarse dolomite	~	~
ostracods in the lower	5	0	. crystals	3	U
Sinches	0	0	Dolomite, mealum-beaded,		
brownish-gray dolomitic			area slightly limy yery		
fine- to medium-grained:			finely granular: contains thin		
contains thin stringers of			vellowish-gray sandstone dikes		
dolomite	5	0	(mud-crack fillings?) in the		
Sandstone, medium-bedded,			upper beds	5	С
brownish-gray, dolomitic,			Dolomite, medium-bedded,		
slightly limy, fine- to medium-			• medium light-gray, very		
grained; contains white coarse	0	E	finely granular; contains	-	~
calcite crystals	3	D	Scattered sand grains	T	U
bedded light brownish			vollowish grou limy		
aray to brownish-aray			medium-grained; contains		
sandy, very finely			stringers of light olive-gray		
granular	2	4	dolomitic sandstone	1	C
Sandstone, medium-			Sandstone, medium-bedded,		
bedded, yellowish-gray,			white to yellowish-gray,		
dolomitic, fine- to			slightly limy, medium-		
medium-grained; grains			grained; grains exhibit second-	3	F
contains stringers of			Dolomite thin- to medium-	J	
brownish-gray dolomite			bedded, dark-gray, very		
1 to 2 inches			finely granular; contains		
thick	5	10	scattered sand grains		10
Dolomite, medium-bedded,			Sandstone, medium-bedded,		
brownish-gray, finely			yellowish-gray, limy, fine-		
crystalline		6	to medium-grained		t
Sandstone, thin-bedded,			Dolomite, medium-bedded,		
limy poorly sorted			crustalline: contains some		
fine- to coarse-			white coarse calcite		
grained		6	crystals	3	6
Dolomite, medium-bedded,		Ŭ	Sandstone, medium-bedded,	-	
brownish-gray, sandy, finely			yellowish-gray to light		
crystalline; ostracods	3	2	brownish-gray, very dolo-		
Dolomite, medium-bedded,			mitic, fine- to medium-		
yellowish-gray, sandy,			grained; contains white	1	,
slightly limy, finely	ຄ	77	limy sandstone stringers	1	(
Dolomite medium-bedded	4	ſ	light brownish-grav very		
light brownish-gray to olive-			dolomitic, fine- to medium-		
gray, slightly limy, dense;			grained	2	1
contains scattered sand			Dolomite, medium-bedded,		
grains		8	light olive-gray, finely crystal-	-	
Dolomite, medium-bedded,			line		(
light brownish-gray, sandy,			Sandstone, thin-bedded, light		
stignity fimy, very finely			brownisn-gray, very dolo- mitic fine-to medium		
crystalline		10	grained		
			J		

rdovician rocks -Continued		
Everton formation —Continued		
Newton sandstone member:		
Sandstone, thin- to medium-		
bedded, yellowish-gray,		
slightly limy, fine- to		
medium-grained	3	10
Sandstone, crossbedded.		
thin- to medium-bedded.		
vellowish-gray fine- to		
medium-grained	5	0
Sandstone crosshodded	Ŭ	Ŭ
thin to modium hoddod		
tille to medium-bedded,		
yellowish-gray, poorly		
sorted, very line to	F	~
medium-grained	5	0
Sandstone, crossbedded,		
thin- to medium-bedded,		
yellowish-gray, fine- to		
medium-grained	5	0
Sandstone, medium-bedded,		
vellowish-gray, very fine		
to medium-grained: grains		
exhibit secondary		
arouth	5	0
Sandstone thin to medium-	U	Ŭ
badded vollowich grou		
bedded, yeriowisn-gray,		
limy, line- to meclum-		
grained; grains exhibit	-	
secondary growth	5	0
Limestone, thin-bedded,		
light olive-gray, sandy, very		
finely granular;		
ostracods		2
Limestone, medium-bedded,		
light olive-gray, oolitic, very		
finely granular:		
ostracods		10
Sandstone medium-bedded		10
vellowish-grav very limy		
fine to modium appired:		
ine- to medium-grained;		
grains exhibit secondary	0	~
growth	2	0
Sandstone, medium-beddec,		
yellowish-gray, limy, fine-		
to medium-grained; grains		
exhibit much secondary		
growth	2	3
Sandstone, medium-bedded,		
vellowish-gray, fine- to		
medium-grained: grains		
exhibit secondary		
arowth	5	0
Sandstone medium-bedded	0	Ŭ
vellowish_grou_limy_fino_		
to modium grained	F	0
to medium-gramed	0	0
Sandstone, medium-bedded,		
yellowish-gray, line- to		
medium-grained; grains		
exhibit secondary	_	
growth	5	0
Sandstone, thin- to medium-		
bedded, yellowish-gray,		
slightly limy, fine- to		
medium-grained; grains		
exhibit secondary		

С

	FL.	<u>1n</u>
Ordovician rocks -Continued Everton formation -Continued	_	
Newton sandstone memberCon.		
medium-bedded.		
yellowish-gray to		
white, limy, fine- to		
medium-grained; grains		
exhibit secondary	F	0
(Base of Newton sandstone member)	0	0
Limestone, very thin to thin-		
bedded, light olive-gray,		
very finely crystalline;		
contains scattered sand		10
Sandstone thin- to medium-		10
bedded, yellowish-gray,		
limy, fine- to medium-		
grained; grains exhibit sec-	-	~
ondary growth	5	8
light olive-gray politoid		
dense to finely crystalline;		
contains scattered sand grains		
and white, medium to coarse		_
calcite crystals	1	8
Limestone, thin-bedded,		
finely crystalline		4
Limestone, medium-bedded,		
light olive-gray, finely to		
medium-crystalline; con-		
tains scattered sand grains,		
cryptozoon structures		9
Sandstone, thin- to medium-		Ũ
bedded, yellowish-gray,		
limy, fine- to medium-	~	•
grained	2	9
bedded, vellowish-grav		
limy, fine- to medium-		
grained; thin limestone		
stringers in lower one-third	_	
of unit	2	6
light olive-gray politic		
dense to very finely granular;		
contains scattered sand grains	,	
limestone granules, and some		
white medium-crystalline cal-	1	0
Limestone, very thin to thin-	1	9
bedded, yellowish-gray,		
sandy, very finely		
granular	1	3
Sandstone, thick-bedded,		
limy, fine- to medium-		
grained; grains exhibit much		
secondary growth	5	8
Sandstone, thick-bedded,		
yellowish-gray, limy,		
grains exhibit much secondary		
growth	4	3

	Ft	in		Ft	in
Ordovician rocks -Continued			Ordovician rocks Continued		
Everton formation Continued			Everton formation - Continued		
Limestone, medium-bedded,			Limestone, mealum-bedded,		
donse to finaly anystalline:			dense: contains scattered		
contains scattered sand			sand grains and thin sand-		
grains	2	6	stone stringers	5	0
Sandstone, medium- to thick-	-		Sandstone, medium-bedded,		-
bedded, yellowish-gray,			yellowish-gray to white,		
limy, very fine to medium-			very limy, fine- to medium-		
grained; grains exhibit	~	0	grained; contains some		
secondary growth	6	0	white coarse calcite		~
medium-bedded light			Limestone platy to very		a
olive-grav. oolitic. dense:			thin bedded. light olive-		
contains scattered sand			gray, oolitic, dense; con-		
grains	1	2	tains scattered sand grains;		
Limestone, very thin to medium-			grades into sandstone above		
bedded, light olive-gray,			and below	1	9
oolitic, dense to finely crystal-			Sandstone, thin- to medium-		
stringers		6.	· Dedded, yellowisn-gray,		
Limestone medium-bedded		÷ 0	arained	3	1
light olive-gray, oolitic.			Limestone. thin-bedded.	Ũ	-
dense; contains scattered			light olive-gray, sandy,		
sand grains	1	6	finely crystalline		3
Sandstone, thin- to medium-			Limestone, medium-bedded,		
bedded, yellowish-gray,			light olive-gray, colitic,		
very limy, fine- to	1	1	dense; contains scattered		
Limestone thin-bedded	T	T	stone stringers		9
light olive-gray, oolitic, very			Limestone. medium-bedded.		Ũ
finely granular; contains			light olive-gray, oolitic,		
scattered sandgrains		2	dense; contains scattered		
Sandstone, medium-bedded,			sand grains	1	5
yellowish-gray to white, limy,			Sandstone, medium-bedded,		
line- to medium-grained;			yellowish-gray, limy, line-		6
limestone granules in the			Limestone very thin to		0
lower 1 inch	1	1	thin-bedded, light olive-		
Limestone, medium-bedded,			gray, oolitoid, dense to		
light olive-gray, oolitic,			finely crystalline; con-		
dense to finely crystalline;			tains scattered sand	-	1
contains scattered sand	1	1	grains	1	T
grains	T	T	vellowish-gray sandy		
bedded, light olive-grav.			finely crystalline: contains		
oolitic, dense to very finely			some flattened limestone		
granular; contains some			granules		6
white coarse calcite			Limestone, thin-bedded,		
crystals	1	8	light olive-gray, oolitic,		
Limestone, thin- to mealum-			dense; contains scat-	1	e
dense to finely crystalline:			Base of section at river level	T	U
contains scattered sand					
grains	3	0		186	7
Limestone, thin-bedded, light					
olive-gray, sandy, finely		0			
		చ	B. Section of the Everton formation on the s	south	Side
bedded vellowish-			the mouth of Mill Creek in the NF <sup>1</sup> sec	. 7	111
grav, verv sandv.			T. 16 N., R. 20 W. Newton County.	Ark.	
finely crystalline	1	0	Base of section at river level.		
Limestone, thin-bedded,					
light olive-gray,			Carboniferous (Mississippian) rocks:		
oolitic, dense; con-			Boone formation:		
tains scattered sand		4	St. Joe limestone member.		
grams		7	Basal sandstone member.		

the second second			Ordovicia
rdovician rocks.			Filovicia
Everton formation:			Ever
Jasper member:			
Limestone, medium-			
bedded, light olive-			
gray, slightly oolitic,			
dense; contains pyrite.			
especially in the upper			
6 inches	1	7	
Limestone thin-hedded	-		
light olive grow to brownish			
and conduction don so			
gray, sandy, contic, dense			
to linely crystalline; contains		4	
pyrite		4	
Sandstone, thin-bedded, light			
olive-gray, limy, medium-			
grained		4	
Sandstone, medium-bedded,			
vellowish-grav to light			
olive-gray very limy, fine-			
to medium-grained: contains			
limestone granules:			
nimestone granules,		0	
ostracods		0	*
Limestone, medium-			
bedded, light olive-gray,			
oolitic, dense; contains			
white medium-sized calcite			
crystals; ostracods	1	3	
Sandstone, medium-bedded.			
vellowish-gray, limy,			
fine-grained	1	0	
Limestone thin-bedded	-	Ŭ	
light olive grov colitie			
light onve-gray, contre,		0	
dense		Z	
Sandstone, medium-bedded,			
yellowish-gray, very			
limy, fine-grained	4	2	
Limestone, medium-bedded,			
light olive-gray, oolitic,			
dense to finely crystalline:			
ostracods	4	0	
Limestone medium-bedded	-	Ū.	
light olivo gray colitig			
donno to yowy finaly gron			
dense to very inery gran-		•	
ular; ostracods	4	3	
Limestone, medium-bedded,			
light olive-gray, oolitic,			
dense to very finely			
granular	5	0	
Limestone, medium-bedded.			
light olive-gray to light			
brownish-gray colitoid			
yory finaly grapular to			
finale amotolline: containe			
imely crystamile, contains	E	0	
scattered sandgrains	· D	0	
Sandstone, medium-bedded,			
yellowish-gray, slightly			
limy, fine-grained; grains			
exhibit much secondary			
growth	4	0	
Sandstone, medium-bedded,			
vellowish-grav. slightly			
limy, fine-grained; grains			
exhibit much secondary			
growth	5	0	
Sandstono modium hadd-d	U	Ŭ	
vollowish grow line			
fire to gray, hmy,			
ine- to medium-grained;			
grains exhibit secondary			Base of s
arowth	5	0	

	<u>_Ft</u>	in
n rocks -Continued		
on formation Continued		
Dolomite, medium-		
bedded, brownish-		
gray, finely crystalline;		
contains scattered sand	4	4
grains	Ţ	4
Dolomite, thin-bedded,		
brownish-gray, sandy,		0
linely crystalline		3
Sandstone, medium-bedded,		
yellowish-gray to white,		
limy, slightly dolomitic,		
line- to medium-grained;		
grains exhibit secondary	4	4
growth	T	T
Dolomite, medium-beaded,		
light olive-gray, very		
sandy, finely	0	10
crystalline	3	10
Sandstone, medium-bedded,		
yellowish-gray to white,		
slightly limy, fine- to		
medium-grained; grains		
exhibit much secondary		_
growth	1	3
Sandstone, medium-bedded,		
yellowish-gray to white,		
slightly dolomitic, slightly		
limy, fine- to medium-		_
grained	1	6
Sandstone, medium-bedded,		
light olive-gray, very		
dolomitic, fine- to		_
medium-grained	1	6
Sandstone, medium-bedded,		
light olive-gray to white,		
dolomitic, slightly limy,		
fine- to medium-grained;		
contains thin stringers of		
limy sandstone and dolomite		
with scattered sand	-	
grains	3	11
Dolomite, medium-bedded,		
brownish-gray, finely		
crystalline; contains scat-		~
tered sand grains		.9
Sandstone, medium-bedded,		
yellowish-gray, limy,		
dolomitic, fine- to medium-	0	~
grained	3	0
Sandstone, medium-bedded,		
yellowish-gray, fine- to		
medium-grained; grains		
exhibit secondary		0
growth	Z	8
Dolomite, medium-bedded,		
brownish-gray, linely	,	0
crystalline	1	0
Sandstone, medium- to		
thick-bedded, yellowish-		
gray to light onve-gray,		
medium_arrived	3	10
Dolomite medium-bodded	0	10
medium dark grav dense		
contains scattered sand		
grains	6	0
ection at river level	Ŭ	

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(Base of Jasper member)

C. Section of the Everton formation on the no:	rth sid	le
of the Little Buffalo River 50 yards upstr	eam	
NETINUI Sec 21 T 16 N P 20 W	.e Norrto:	<b>~</b>
County Ark Base of section at river L	vewto.	11
	ever.	
Carboniferous (Mississippian) rocks:		
Boone formation:		
Basal sandstone member.		
Dabar bandstone member.	म्भ	in
Ordovician rocks:	<u> </u>	
Everton formation:		
Jasper member:		
Sandstone, medium-bedded,		
yellowish-gray, slightly		
arained: grains exhibit		
secondary growth	2	6
Sandstone, thin-bedded.	2	Ũ
yellowish-gray, very limy,		
fine- to medium-grained;		
grains exhibit some secondary		
growth	2	6
Sandstone, medium-bedded,		
gray very limy fine to		
medium-grained; contains		
thin stringers of sandy		
limestone	2	3
Limestone, medium-bedded,		
light olive-gray, oolitic,		
dense to finely crystalline;		
ostracods		5
Limestone, medium-bedded		0
medium-gray to light olive-		
gray, sandy, finely		
crystalline		6
Sandstone, medium-bedded,		
yellowish-gray to white,		
arained: grains exhibit		
secondary growth	4	0
Limestone, thin- to medium-		
bedded, gray to brownish-		
gray, oolitic, dense to finely		-
crystalline; ostracods	1	5
bedded vellowish-grav to		
white, slightly limy, fine-		
to medium-grained; grains		
exhibit secondary		
growth	5	0
(Base of Jasper member)		
Sandstone, medium-bedded,		
dolomitic fine- to medium-		
grained	2	9
Sandstone, medium-bedded,		
light brownish-gray,		
dolomitic, medium-	-	
grained	5	0
light olive_groy_finely		
crystalline: contains scat-		
tered sand grains and white		
very coarse calcite		
crystals		10

Crdovician rocks -Continued		
Everton formation -Continued		
Dolomite, medium-		
bedded, yellowish-gray		
to light brownish-gray,		
very sandy, finely to medium-		
crystalline; contains white		
medium to very coarse calcite		
crystals; grades into overlying	_	
unit	5	0
Sandstone, medium-bedded,		
yellowish-gray to white,		
dolomitic, slightly limy,		
tine- to medium-grained;		
grains exhibit secondary	0	4
growin	3	T
Dolomite, mealum-beaded,		
light brownish-gray, very		
sandy, dense to intery	1	10
Crystamme	Ŧ	10
voru light grou to light		
brownich grou limy		
medium-grained: grains		
exhibit secondary		
arouth	1	1
Sandstone medium- to thick-	Ŧ	Ŧ
hedded light brownish-gray		
very dolomitic fine- to		
medium-grained	5	5
Dolomite, thick-bedded	U	U
brownish-gray and medium		
dark gray, dense to finely		
crystalline: contains scat-		
tered sand grains:		
ostracods	2	1
Sandstone, medium-bedded.	-	-
light brownish-gray to		
brownish-gray, dolomitic,		
medium-grained	3	6
Sandstone, medium-bedded,		
light brownish-gray to		
light olive-gray, verydolo-		
mitic, medium-		
grained	5	8
Sandstone, medium-bedded,		
very light gray to brownish-		
gray, dolomitic, fine- to	_	
medium-grained	5	0
Dolomite, medium-bedded,		
light brownish-gray to	•	
brownish-gray, dense to		
Illnely crystalline; contains		
white coarse calcite		0
Crystais		9
dark-gray to light olivo-		
gray dolomitic		
medium-grained	4	0
Dolomite, thin- to medium-	1	0
bedded, medium dark grav.		
finely crystalline	1	3
Sandstone, medium-	-	
bedded, yellowish-		
gray, dolomitic.		
fine- to medium		
grained	1	6

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	Ft	in		F
Ordovician rocks -Continued			Ordovician rocks — Continued	
Everton formation —Continued			Everion formation -Continued	
Dolomite, tiin- to			bedded vellowish-grav to	
light gray dense to finely			white, limy, fine- to	
crystalline: contains scat-			medium-grained	1
tered sand grains and white			Dolomite, medium-bedded,	
coarse calcite crystals	3	10	medium dark gray to	
Dolomite, medium-bedded,			brownish-gray, finely	
dark-gray to yellowish-			crystalline; contains	~
gray, sandy, finely			scattered sand grains	2
crystalline; contains scal-			light brownish-gray to	
stringers of delemitic			vellowish-gray dolomitic	
sandstone	2	2	fine- to medium-	
Dolomite, medium-bedded,			grained	5
very light gray, pinkish-			Newton sandstone member:	
gray, and yellowish-gray,			Sandstone, medium- to thick-	
sandy, very limy, very			bedded, yellowish-gray to	
finely granular to linely			white, fine- to mealum-	
crystalline; contains			grained, grains exhibit	5
thin stringers of dolomitic			Sandstone medium-to	Ű
sandstone	4	0	thick-bedded. vellowish-	
Dolomite, medium-bedded,			gray to white, fine- to	
medium-gray, very finely			medium-grained; grains	
granular to finely crystal-			exhibit secondary	-
line; contains scattered	1	0	growth	5
Sand grains bolomita madium baddad	1	4	Sandstone, medium- to	
medium-gray to light olive-			aray to white slightly	
gray, dense to finely			limy, fine- to medium-	
crystalline; contains scat-			grained; grains exhibit	
tered sand grains and white			secondary growth	5
medium to coarse calcite	-	•	Sandstone, medium-bedded,	
crysta.s	5	0	yellowish-gray to white,	
Dolomite, thin-bedded,			slightly limy, fine- to	
arapular to fipely crystal-			exhibit secondary	
line: contains scattered sand			growth	5
grains	1	2	Sandstone, medium-bedded,	
Dolomite, medium-bedded,			yellowish-gray to white,	
medium dark gray, finely			limy, fine- to medium-graine	d;
crystalline; contains white			grains exhibit secondary	
medium to coarse calcite	9	10	growth	4
Dolomite medium-hedded	2	10	(Base of Newton Sandstone member)	
olive-gray to light brownish-			light-gray, sandy, oolitic.	
gray, dense; contains scattered			der.se to finely crystalline;	
sand grains	1	2	contains scattered sand	
Dolomite, medium-bedded,			grains at base; sand content	
light brownish-gray, sandy,	1	0	increases upward	2
Gense	T	2	Limestone, mealum- to	
bedded vellowish-grav to			aray to light olive-gray	
white, limy, fine- to			dense: contains scattered	
medium-grained	3	1	sand grains	4
Dolomite, medium-			Sandstone, thin- to medium-	
bedded, brownish-			bedded, very light gray to	
black to medium			white, limy, fine- to	
dark gray, dense;			Limestone thin to modium	
sand grains		9	bedded medium-aray	
Dolomite, medium-bedded.		U	sandy, dense to finely	
medium dark gray, sandy,			crystalline; ostracods	1
dense		8	Limestone, thin-bedded,	
Sandstone, thin-bedded,			medium light gray, dense	
yellowish-gray, slightly			to finely crystalline; con-	
medium-grained		9	arains	
incurum-grameu		6	gramo	

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Ordovician rocks -Continued			Ordovician rocks — Continued		
Sandstone, medium-bedded.			Limestone, medium-bedded.		
yellowish-gray, limy, fine-			brownish-gray to light olive-		
to medium-grained	1	1	gray, dense to finely crystal-		
Limestone, medium-bedded,			line; cryptozoon	1	8
colitic, dense to finely			Sandstone, thin- to medium-	1	Ų
crystalline; contains scat-			bedded, yellowish-gray to		
tered sand grains	1	2	light olive-gray, limy, fine-	~	
Sandstone, medium-bedded,			to medium-grained	5	4
gray, limy, fine- to medium-			bedded, medium light		
grained	1	8	gray, slightly sandy,		
Limestone, thin-bedded,			oolitoid, dense to finely		~
medium-gray, oolitic, dense			crystalline		5
scattered sand grains		3	light-gray to yellowish-		
Sandstone, medium-bedded,		-	gray, very limy, fine- to		
light olive-gray to yellowish-			medium-grained; contains		
gray, limy, fine- to		7	. small flat limestone		0
Limestone medium-bedded		Į	Limestone thin- to medium-		9
light olive-gray to very		-	bedded, medium-gray to		
light gray, oolitoid, sandy,			light brownish-gray, dense;		
very finely granular; con-			contains thin stringers		
limy sandstone		6	of white, fimy		4
Sandstone, medium-bedded.		Ŭ	Sandstone, medium-bedded.		1
very light gray, limy,			. light-gray to yellowish-		
fine- to medium-grained,			gray, limy, fine- to		
contains limestone granules;		6	medium-grained; contains		
Limestone, medium-bedded.		Ŭ	in the lower part	1	3
light brownish-gray to olive-			Limestone, very thin to		
gray, dense to finely crystal-			thin-bedded, medium-		
line; contains scattered sand		7	gray to medium dark		Δ
Limestone, medium-bedded.		'	Sandstone. medium-bedded.		т
light brownish-gray to			light-gray to yellowish-		
light olive-gray, sandy,			gray, very limy,		0
dense to linely crystalline		7	medium-grained Sandstone medium-bedded		6
Sandstone, thick-bedded, white,		•	vellowish-gray, limy,		
limy, fine- to medium-			medium-grained	1	2
grained	2	• 6	Sandstone, medium-bedded,		
Sandstone, thick-bedded, white,			very light gray to yellowish- gray very limy medium-		
grained	5	0	grained	1	5
Sandstone, thick-bedded, white,			Limestone, medium-bedded,		
limy, fine- to medium-	Λ	0	medium-gray to light olive-		
Limestone medium-bedded.	4	0	crystalline: contains dense		
medium-gray, dense to			oolitic limestone pebbles		
finely crystalline; contains			as much as 1 inch in diameter	•	
scattered sand grains	1	0	in a matrix of very sandy		
medium-gray sandy dense			Sandstone medium-bedded		ſ
to finely crystalline		11	very light gray to yellowish-		
Limestone, medium-bedded,			gray, very limy, medium-		
brownish-gray to olive-			grained		9
gray, dense to linely crystalline: cryptozoon			Limestone, medium-bedded, medium light grav to light		
structures	2	0	olive-gray, oolitic, dense;		
Sandstone, thin- to medium-			contains scattered sand		-
bedded, light brownish-			grains		7
limy, fine- to medium-			medium light grav to light olive	_	
grained		11	gray, oolitic, dense		7

	Ft	in
Ordovician rocks - Continued		
Everton formation —Continued		
Limestone, medium-bedded,		
sondy donso to finaly		
crustalline	1	0
Limestone, thin- to medium-	-	Ŭ
bedded, olive-gray to light-		
gray, colitic, dense to finely		
crystalline		9
Sandstone, medium-bedded,		
light-gray to yellowish-gray,		
limy, fine- to medium-		
grained	1	3
Sandstone, thick-bedded to		
massive, light-gray to		
yellowish-gray, slightly		
arained: grains exhibit		
secondary growth	5	0
Sandstone thick-bedded to	Ŭ	Ŭ
massive, light-grav to		
yellowish-gray, slightly		
limy, medium-grained; grains		
exhibit secondary growth;		
(lower 4 feet of beds usually		
below water level)	5	0
Base of section at river level.	107	
	187	1
sec. 26. T. 16 N., R. 20 W., Newton Co	untv.	
sec. 26, T. 16 N., R. 20 W., Newton Co Ark. Base of section about 4 feet above r level.	unty, river	
sec. 26, T. 16 N., R. 20 W., Newton Co Ark. Base of section about 4 feet above r level.	unty, river	in
sec. 26, T. 16 N., R. 20 W., Newton Co Ark. Base of section about 4 feet above n level.	unty, river	in
<ul> <li>sec. 26, T. 16 N., R. 20 W., Newton Co Ark. Base of section about 4 feet above n level.</li> <li>Carboniferous (Mississiopian) rocks: Boone formation:</li> </ul>	unty, river	in
<ul> <li>Sec. 26, T. 16 N., R. 20 W., Newton Co Ark. Base of section about 4 feet above n level.</li> <li>Carboniferous (Mississiopian) rocks: Boone formation: St. Joe limestone member.</li> </ul>	iver <u>Ft</u>	in
<ul> <li>sec. 26, T. 16 N., R. 20 W., Newton Co Ark. Base of section about 4 feet above n level.</li> <li>Carboniferous (Mississiopian) rocks: Boone formation: St. Joe limestone member. Basal sandstone member.</li> </ul>	iunty, river	in
<ul> <li>Sec. 26, T. 16 N., R. 20 W., Newton Co Ark. Base of section about 4 feet above n level.</li> <li>Carboniferous (Mississiopian) rocks: Boone formation: St. Joe limestone member. Basal sandstone member. Covered interval</li> </ul>	<u>Ft</u>	<u>in</u>
<ul> <li>Sec. 26, T. 16 N., R. 20 W., Newton Co Ark. Base of section about 4 feet above n level.</li> <li>Carboniferous (Mississiopian) rocks: Boone formation: St. Joe limestone member. Basal sandstone member. Covered interval</li> </ul>	<u>Ft</u>	<u>in</u> 0
<ul> <li>Sec. 26, T. 16 N., R. 20 W., Newton Co Ark. Base of section about 4 feet above n level.</li> <li>Carboniferous (Mississiopian) rocks: Boone formation: St. Joe limestone member. Basal sandstone member. Covered interval</li> <li>Crdovician rocks: St. Peter sandstone:</li> </ul>	<u>Ft</u>	<u>in</u> 0
<ul> <li>Sec. 26, T. 16 N., R. 20 W., Newton Co Ark. Base of section about 4 feet above n level.</li> <li>Carboniferous (Mississiopian) rocks: Boone formation: St. Joe limestone member. Basal sandstone member. Covered interval</li> <li>Crdovician rocks: St. Peter sandstone: Sandstone, medium-bedded, white</li> </ul>	<u>Ft</u>	<u>in</u> 0
<ul> <li>Sec. 26, T. 16 N., R. 20 W., Newton Co Ark. Base of section about 4 feet above n level.</li> <li>Carboniferous (Mississiopian) rocks: Boone formation: St. Joe limestone member. Basal sandstone member. Covered interval</li> <li>Crdovician rocks: St. Peter sandstone: Sandstone, medium-bedded, white to very light gray, very slightly</li> </ul>	<u>Ft</u>	<u>in</u> 0
<ul> <li>Sec. 26, T. 16 N., R. 20 W., Newton Co Ark. Base of section about 4 feet above n level.</li> <li>Carboniferous (Mississiopian) rocks: Boone formation: St. Joe limestone member. Basal sandstone member. Covered interval</li> <li>Crdovician rocks: St. Peter sandstone: Sandstone, medium-bedded, white to very light gray, very slightly limy, medium-grained; grains</li> </ul>	<u>Ft</u>	<u>in</u> 0
<ul> <li>Sec. 26, T. 16 N., R. 20 W., Newton Co Ark. Base of section about 4 feet above n level.</li> <li>Carboniferous (Mississiopian) rocks: Boone formation: St. Joe limestone member. Basal sandstone member. Covered interval</li> <li>Crdovician rocks: St. Peter sandstone: Sandstone, medium-bedded, white to very light gray, very slightly limy, medium-grained; grains exhibit much secondary growth;</li> </ul>	<u>Ft</u>	<u>in</u> 0
<ul> <li>Sec. 26, T. 16 N., R. 20 W., Newton Co Ark. Base of section about 4 feet above n level.</li> <li>Carboniferous (Mississiopian) rocks: Boone formation: St. Joe limestone member. Basal sandstone member. Covered interval</li> <li>Crdovician rocks: St. Peter sandstone: Sandstone, medium-bedded, white to very light gray, very slightly limy, medium-grained; grains exhibit much secondary growth; quartzitic beds in middle of</li> </ul>	<u>Ft</u>	<u>in</u> 0
<ul> <li>Sec. 26, T. 16 N., R. 20 W., Newton Co Ark. Base of section about 4 feet above n level.</li> <li>Carboniferous (Mississiopian) rocks: Boone formation: St. Joe limestone member. Basal sandstone member. Covered interval</li> <li>Crdovician rocks: St. Peter sandstone: Sandstone, medium-bedded, white to very light gray, very slightly limy, medium-grained; grains exhibit much secondary growth; quartzitic beds in middle of unit</li> </ul>	Triver	<u>in</u> 0
<ul> <li>Sec. 26, T. 16 N., R. 20 W., Newton Co Ark. Base of section about 4 feet above n level.</li> <li>Carboniferous (Mississiopian) rocks: Boone formation: St. Joe limestone member. Basal sandstone member. Covered interval</li> <li>Crdovician rocks: St. Peter sandstone: Sandstone, medium-bedded, white to very light gray, very slightly limy, medium-grained; grains exhibit much secondary growth; quartzitic beds in middle of unit</li> </ul>	The second secon	<u>in</u> 0
<ul> <li>Sec. 26, T. 16 N., R. 20 W., Newton Co Ark. Base of section about 4 feet above n level.</li> <li>Carboniferous (Mississiopian) rocks: Boone formation: St. Joe limestone member. Basal sandstone member. Covered interval</li> <li>Crdovician rocks: St. Peter sandstone: Sandstone, medium-bedded, white to very light gray, very slightly limy, medium-grained; grains exhibit much secondary growth; quartzitic beds in middle of unit</li> </ul>	The second secon	<u>in</u> 0 8
<ul> <li>Sec. 26, T. 16 N., R. 20 W., Newton Co Ark. Base of section about 4 feet above n level.</li> <li>Carboniferous (Mississiopian) rocks: Boone formation: St. Joe limestone member. Basal sandstone member. Covered interval</li> <li>Crdovician rocks: St. Peter sandstone: Sandstone, medium-bedded, white to very light gray, very slightly limy, medium-grained; grains exhibit much secondary growth; quartzitic beds in middle of unit</li> <li>Everton formation: Jasper member:</li> </ul>	The second secon	<u>in</u> 0 8
<ul> <li>Sec. 26, T. 16 N., R. 20 W., Newton Co Ark. Base of section about 4 feet above n level.</li> <li>Carboniferous (Mississiopian) rocks: Boone formation: St. Joe limestone member. Basal sandstone member. Covered interval</li> <li>Crdovician rocks: St. Peter sandstone: Sandstone, medium-bedded, white to very light gray, very slightly limy, medium-grained; grains exhibit much secondary growth; quartzitic beds in middle of unit</li> <li>Everton formation: Jasper member: Limestone, platy to thin-</li> </ul>	The second secon	<u>in</u> 0 8
<ul> <li>Sec. 26, T. 16 N., R. 20 W., Newton Co Ark. Base of section about 4 feet above r level.</li> <li>Carboniferous (Mississiopian) rocks: Boone formation: St. Joe limestone member. Basal sandstone member. Covered interval</li> <li>Crdovician rocks: St. Peter sandstone: Sandstone, medium-bedded, white to very light gray, very slightly limy, medium-grained; grains exhibit much secondary growth; quartzitic beds in middle of unit</li> <li>Everton formation: Jasper member: Limestone, platy to thin- bedded, light-gray,</li> </ul>	The second secon	<u>in</u> 0 8
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<ul> <li>Sec. 26, T. 16 N., R. 20 W., Newton Co Ark. Base of section about 4 feet above r level.</li> <li>Carboniferous (Mississippian) rocks: Boone formation: St. Joe limestone member. Basal sandstone member. Covered interval</li> <li>Crdovician rocks: St. Peter sandstone: Sandstone, medium-bedded, white to very light gray, very slightly limy, medium-grained; grains exhibit much secondary growth; quartzitic beds in middle of unit</li> <li>Everton formation: Jasper member: Limestone, platy to thin- bedded, light-gray, dense</li></ul>	river <u>Ft</u> 7 2 1	<u>in</u> 0 8 2 8 3
<ul> <li>Sec. 26, T. 16 N., R. 20 W., Newton Co Ark. Base of section about 4 feet above r level.</li> <li>Carboniferous (Mississippian) rocks: Boone formation: St. Joe limestone member. Basal sandstone member. Covered interval</li> <li>Crdovician rocks: St. Peter sandstone: Sandstone, medium-bedded, white to very light gray, very slightly limy, medium-grained; grains exhibit much secondary growth; quartzitic beds in middle of unit</li> <li>Everton formation: Jasper member: Limestone, platy to thin- bedded, light-gray, dense</li></ul>	river <u>Ft</u> 7 2 1	<u>in</u> 0 8 2 8 3
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	ri	111
Ordovician rocks - Continued		
Everton formation - Continued		
Jasper member -Continued		_
Covered interval		6
Limestone, thin-bedded,		
light-gray, colitic, dense;		
contains scattered sand		_
grains		2
Sandstone, thick-bedded,		
very light gray to white,		
slightly limy, medium-		
grained; grains exhibit		
secondary growth	3	8
Limestone, medium-bedded,		
light-gray to very light		
gray, very sandy, dense to		
finely crystalline	1	6
Limestone, medium- to		
thin-bedded, light-gray,		
oolitic, sandy, dense to		
finely crystalline; sand		
content decreases upward:		
ostracods	1	6
Limestone modium hoddod	-	0
unnestone, medium-bedded,		
very light gray to yellowish-		
gray, dense to finely crystal-		
line; contains scattered sand		_
grains; ostracods		8
Limestone, thin-bedded, light-		
gray to yellowish-gray,		
dense to finely crystalline;		
contains scattered sand		
grains	1	1
Limestone, thin-bedded,		
light-grav to vellowish-		
gray, very sandy, finely		
crystalline		6
Sandstone, medium-bedded.		
white to very light gray		
very limy medium-		
arsined	1	6
Covered intervel	+	6
Limostoro modium		0
Limestone, medium-		
bedded, light-gray, oolitic,		
dense to linely crystalline;		~
ostracods		6
Covered interval		6
Limestone, medium-bedded,		
yellowish-gray to light		
olive-gray, dense to finely		
crystalline; scattered sand		
grains	1	2
Limestone, medium-bedded,		
yellowish-gray to light		
olive-gray, very sandy,		
finely crystalline		3
Limestone, medium-bedded.		
vellowish-grav to light		
olive-gray, dense to finely		
crystalline: contains scat-		
tered sand grains	1	0
Sandstone thin-bedded white	1	0
to yery light gray yory		
limu fino to modium		
arained		11
Jimostono modium haddad		11
unan light groute light		
very light gray to light-		
gray, contoid, dense to finely		
crystalline; contains scattered		5
sand grains		D

	Ft	in		Ft	in
Ordovician rocks - Continued	_		Ordovician rocks -Continued		
Everton formation —Continued			Everton formation —Continued		
Jasper member — Continued			Jasper member —Continued		
light grou to vollowich			Sandstone, mealum-		
aray yery limy medium-			arey very slightly limy		
grained	1	9	fine- to medium-grained:		
Sandstone, medium-bedded,	-		grains exhibit secondary		
light-gray, medium-grained;			growth	2	10
grains exhibit secondary			Limestone, thin-bedded,		
growth	1	0	very light gray to yellowish-		
Limestone, medium-bedded,			gray, dense to finely crystal-		
dense to finely			arains		8
crystalline	2	3	Sandstone, medium-bedded.		Ũ
Limestone, thin-bedded,			very light gray to white,		
light-gray to light olive-			limy, medium-grained	4	11
gray, silty, oolitic, dense		~	Limestone, thin-bedded,		
to finely crystalline		9	light-gray to yellowish-		
Limestone, medium-bedded,			gray, colitoid, finely		
to finely crystalline:			ostracods		8
ostracods	3	11	Sandstone, medium- to		Ũ
Limestone, thick-bedded.	Ť		thick-bedded, light-gray		
light olive-gray, oolitic,			to white, limy, fine- to		
dense to finely crystalline;			medium-grained; grains		
contains scattered sand			exhibit secondary	0	~
grains;ostracods,	9	Α	growth	3	Э
Limostono modium-boddod	4	4	Limestone, thin-beaded,		
very light gray to vellowish-			dense to finely		
gray, oolitoid, sandy, finely			crystalline	1	3
crystalline; contains limestone			Sandstone, medium-bedded,		
granules; ostracods	2	2	white to very light gray,		
Limestone, medium-bedded,			slightly limy, fine- to		
very light gray to light-gray,			medium-grained; grains		
line: ostracods	1	7	exhibit secondary growth	4	7
Limestone, medium-bedded.	1	'	Sandstone, thin-bedded.	1	
light-gray to very light gray,			white to very light gray,		
oolitoid, dense to finely			very limy, fine- to		
crystalline; contains scat-			medium-grained; con-		
tered sand grains		11	tains a limestone		
Limestone, thin-bedded, very			stringer $\frac{1}{2}$ to 1 inch thick	5	0
to finely crystalline: con-			Limestone thin-bedded	Ű	0
tains scattered sand grains:			very light gray to yellowish-		
ostracods	1	6	gray, dense to medium-		
Limestone, platy to very			crystalline; contains scat-		
thin bedded, light-gray to			tered sand grains;		
light brownish-gray, sandy,			ostracods		Ž
dense to finely crystalline,	1	0	bandstone, medium-bedded,		
Limestone, thin- to medium-	-	Ŭ	limy, fine- to medium-		
bedded, very light gray to			grained	2	2
yellowish-gray, finely to			Sandstone, medium-bedded,		
medium-crystalline;		~	yellowish-gray to white,		
ostracods	1	2	quartzitic, fine- to medium-	1	~
Limestone, very thin			grained	T	C
light gray, silty, dense to			vellowish-grav to white.		
medium-crystalline; ostracods;			limy, fine- to medium-		
unit weathers back		6	grained	2	(
Limestone, medium-			Sandstone, medium-bedded,		
bedded, medium light			white to very light gray,		
gray to brownish-			argined: contains stringers		
to finely crystalline:		5	of sandstone with siliceous		
ostracods			cement	1	4

	<u> </u>			Fit	in
Ordovician rocks Continued			Ordovician rocks -Continued		
Everton formation — Continued			Everton formation —Continued		
Jasper member — Continued			Dolomite, medium- to		
Limestone, medium-			thick-bedded, light-		
te uellewich man			gray, sandy, dense to		
to yellowish-gray,			finely crystalline;		
dense to medium-crystal-			ostracods	5	0
nne, contains scattered		E	Dolomite, thick-bedded,		
sand grains; ostracods		ວ	light-gray, dense to		
Limestone, medium-			finely crystalline	5	7
bedded, very light gray			Covered interval	3	7
to yellowish-gray, sandy,			Dolomite, medium-bedded,		
dense to medium-crystal-		-	light-gray, sandy, dense		
line; ostracods		5	to finely crystalline	1	2
Sandstone, medium-bedded,			Covered interval	5	0
light-gray to white, limy,			Sandstone, medium-bedded,		
medium- to fine-grained;			very light gray to white.		
grains exhibit secondary			slightly dolomitic.		
growth; ostracods	5	0	medium-grained	1	8
(Base of Jasper member)			Covered interval	-	10
Dolomite, thick-bedded,			Sandstone medium-bedded		10
medium light gray to			very light gray to white		
light brownish-gray,			slightly dolomitic medium-		
sandy, dense to finely			arbind: groins oxhibit		
crystalline	5	6	granieu, granis exhibit		11
Sandstone, thin-bedded.			Delemite medium hedded		11
light-gray to dense, limy.			Dotomite, medium-bedded,		
dolomitic, medium-			medium-gray to medium		
arained		6	light gray, dense to finely		
Dolomite medium- to thick-		U	crystalline; contains scat-		10
bedded medium light grav			tered sand grains		10
to light brownish-gray			Sandstone, medium-bedded,		
control dense: contains			very light gray to white,		
sandy, dense, contains			slightly dolomitic, medium-		
bin stringern of dolouitie			grained; grains exhibit		
thin stringers of dolomitic	4	0	secondary growth		10
Sandstone	4	3	Covered interval	7	0
Dolomite, mealum-beadea,			Newton sandstone member:		
medium-gray to prownish-			Sandstone, medium- to thick-		
gray, very sandy, dense to		-	bedded, very light gray to		
finely crystalline	4	5	white, medium-grained:		
Sandstone, medium-bedded,			grains exhibit secondary		
white to very light gray,			growth	5	8
medium-grained; grains			Sandstone, medium-to		
exhibit secondary			thick-bedded, very light		
growth	2	5	gray to white, medium-		
Sandstone, very thin bedded,			grained: grains exhibit		
light-gray to white, quartz-			secondary growth	1	10
itic, slightly dolomitic,			Base of section about 4 feet above river level	-	
fine - to medium-grained	2	8		147	5
Sandstone, medium-bedded,				1 - 1	U
white to very light gray,			E. Castion of the St. Datas conditions and Fire	arton fo	
slightly limy, medium- to			E. Section of the St. Peter sandstone and Eve		JI <b>-</b>
coarse-grained; grains ex-			mation at Carver hear the north end of t	ue Wl coo	G
hibit secondary growth	1	7	Builalo River bridge on State Route 125, N	wąsec	. 0,
Dolomite, medium-bedded.			T. 15 N., R. 19 W., Newton County, A	гк.	
light-gray to light brownish-					
gray, sandy, finely to					
medium-crystalline: con-			Carboniferous (Mississippian) rocks:		
tains thin sandstone			Boone formation.		
stringers	1	6		Ft	in
Dolomite thin- to medium-	1	0			
bodded light grou to light			Ordovician rocks:		
olive group finally aroused			Fernvale limestone	6	11
bino: achieve white a					
delemite emetale		0	Plattin limestone	32	7
Delacita madi	2	3			
Dolomite, mealum-bedded,			St. Peter sandstone:		
light-gray, very sandy,			Sandstone, soft, greenish-		
dense to finely			white, very limy, fine- to		
crystalline	2	10	medium-grained	2	F
			geometry and a second s	2	0

Continued	<u>Ft</u>	in
St Peter sandstone -Continued		
Covered interval	3	3
limy; similar to that above		4
Covered interval Sandstone, thin-bedded, greenish-	2	4
gray, slightly argillaceous, limy;		
similar to that above		5
Dolomite, dull-gray, silty, very		
laminae of very fine grained		
sandstone	4	3
Sandstone, greenish-white, limy;		
above	4	6
Dolomite, gray-buff, very finely		
granular		7
Covered interval	2	7
Sandstone, white, limy, fine- to		Α
Sandstone thin-bedded brown		4
dolomitic, fine-grained	4	9
Covered interval	3	Ō
Sandstone, thin-bedded, white to		
grained	2	5
Dolomite, very thin bedded, gray-	2	Ŭ
buff, sandy, fine-grained;		
ostracods		4
Sandstone, medium-bedded, buff-		
and white fine- to medium-grained;		
sandstone	2	6
Covered interval	8	1
Sandstone, soft, very thin bedded,		
pinkish- to greenish-white, fine-		
to medium-grained; grains exhibit	2	5
Covered interval	4	9
Sandstone, medium-bedded, white,		
limy, medium-grained; grains		
exhibit secondary growth	5	6
	54	10
Everton formation:		
Dolomite, massive, dark-		
gray to brown, medium		
to coarsely crystalline	8	7
Sandstone, thin-bedded, white,		0
nne- to mealum-grained	6	9
Sandstone, medium-bedded.	0	Ŭ
white, fine- to medium-		
grained	2	5
Covered interval	2	0
Limestone, mealum-beaded,		
finely crystalline	1	3
Limestone, medium-bedded,		
buff, finely crystalline		11
Limestone, medium-bedded,		0
Duil, Salldy		0
or microfossiliferous. finely		
crystalline; grades downward in	to	
buff sandy limestone	1	1

Ordovician rocks -Continued		111
Everton formation —Continued		
Sandstone medium-bedded		
white, very limy.		
medium-grained	2	3
Limestone, medium- to		
thick-bedded, buff, medium-		
crystalline; contains scattered		
sand grains; grades downward		
into white limy line-grained	1	11
Limestone medium-bedded	1	11
buff, finely crystalline to		
dense		5
Sandstone, greenish-white,		
limy, fine-grained		2
Dolomite, thin-bedded,		
brown, medium-		0
crystalline	0	9
Covered interval	2	9
Limestone, meaium-bedded,		
finely crystalline: abundant		
ostracods	1	11
Limestone, medium-bedded.	-	
light-buff, sandy, finely		
crystalline	1	9
Limestone, thin-bedded,		
light-buff, sandy, finely		
crystalline	1	3
Limestone, thin-bedded,		
light-buil, oolitic or		
calcite: sand grains in upper		
part.	1	4
Limestone. thin-bedded.	1	-
light-buff, oolitic or		
microfossiliferous, sandy;		
sand content increases		
upward	1	0
As above, but very thin		0
Limostono thin haddad	Ţ	2
light_buff_finely_figured		
finely crystalline	1	10
Covered interval	-	7
Limestone, thin-bedded,		
light-buff, finely figured,		
finely crystalline	2	0
Sandstone, white, slightly		
limy, medium-grained;		
grains exhibit secondary		6
Sandstone massive white		0
medium-grained	2	6
Limestone, gray-buff,		
microfossiliferous,		
finely crystalline;		
abundant ostracods		6
Sandstone, thin- to		
to white fine to		
medium_grained		
(usually below water		
level)	3	0

in

F. Section of the St. Peter sandstone and Everton formation on the north side of the Buffalo River in the SW<sub>4</sub>SE<sup>4</sup> sec. 31, T. 16 N., R. 19 W., Newton County, Ark. Base of section at river level.

Carboniferous (Mississippian) rocks: Boone formation:	<u>Ft</u>	in
St. Joe limestone member. Basal sandstone member	1	0
(The gradational contact of the St. Joe limestone member and the basal sandstone member is exposed at the top of this unit. The contact of the basal sand- stone member and the under- lying St. Peter sandstone is not exposed; it lies somewhere in th following covered interval.)	e	
Covered interval	10	6
Ordovician rocks: St. Peter sandstone: Sandstone, medium-bedded, dusky-yellow, silty, limy, fine- to medium-grained; grains exhibit some secondary		
growth Covered interval Sandstone, thin- to medium-tedded, yellowish-gray to white, slightly limy, fine- to medium-grained; grains orbibit some socondary	2 10	0 0
growth Dolomite, thin- to medium-bedded, pale-brown, silty, finely granular; contains scattered sand	1	5
grains Sandstone, medium-bedded, light- brown to white, quartzitic, slightly dolomitic, fine-grained; contains some white coarse dolomite		8
crystals Dolomite, thin- to medium-bedded, pale-brown, silty, finely granular; contains scattered sand	1	7
grains Sandstone, thick-bedded, dusky- yellow to light olive-gray, silty, dolomitic, very fine to fine-grained; the amount of dolomite increases upward in the unit;	;	5
ostracods Covered interval Sandstone, deeply weathered and poorly exposed, medium-bedded, yollowish grow to white medium	2 9	11 0
Sandstone, medium-bedded, yellowish-gray to white, slightly limy; grains exhibit secondary	5	.0
growth; slightly irregular basal surface	5	8
	38	8

	Ft	in.
Ordovician rocks - Continued		
Everton formation:		
Dolomite, medium-bedded.		
brownish-gray, medium-		
crystalline; contains scattered		
sand grains	1	1
Sandstone, medium-bedded,		
white, limy, line- to		0
Dolomite, medium-bedded.		0
brownish-gray, finely to		
medium-crystalline; con-		
tains scattered sand		
grains	4	4
Dolomite, medium-bedded,		
silty modium-crustalline:		
contains scattered sand		
grains	4	7
Sandstone, medium-bedded,		
yellowish-gray to white,		
medium-grained	1	4
Dolomite, thin-bedded,		
finely crystalline: contains		
coarse calcite crystals		
and thin stringers of yellowish-		
.gray dolomitic fine- to		
medium-grained		
sandstone	2	3
Covered interval	1	0
brownish-gray dolomitic		
fine- to		
medium-grained	2	4
Sandstone, medium-bedded,		
yellowish-gray, limy,		
fine- to medium-	~	0
grained	2	3
Limestone, mealum-bedded,		
dense to finely crystalline:		
ostracods	2	6
Limestone, medium-bedded,		
light olive-gray, very		
sandy, finely		
crystalline		4
Limestone, mealum-beaded,		
dense to finely crystal-		
line; ostracods	1	4
Limestone, medium-bedded,		
light olive-gray, sandy,		
finely crystalline		9
Limestone, medium-bedded,		
finely crystalline	1	1
Sandstone, medium-bedded.	1	Î
yellowish-gray, limy,		
fine- to medium-grained;		
ostracods	3	4
Limestone, medium-bedded,		
finely to modium		
crystalline		5
		~

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Ordovician rocks —Continued			
Everton formation -Continued			
Jasper member -Continued			
Sandstone, thin-bedded.			
vellowish-gray, limy,			
fine- to medium-grained:			
arades into overlying			
grades into overrying	2	ß	
Timograph thin to modium	2	U	
Limestone, thin- to medium-			
bedded, light brownish-			
gray, slightly collic,	_		
dense to finely crystalline	2	1	
Limestone, thick-bedded,			
light brownish-gray, slightly			
oolitic, finely			
crystalline	4	4	
Limestone, thick-bedded.			
light brownish-gray colitic			
finely crystalline:			
ostrocodo	9	Λ	
	4	7	
Limestone, thick-beadea,			
alternately sandy and			
nonsandy, light brownish-			
gray, oolitic, finely crystal-			
line; ostracods	5	6	
Limestone, thin-bedded, light			
brownish-gray, sandy, finely			
crystalline		7	
Limestone thin-bedded light			
olive-gray oolitic finely			
anustalline: contains modium			
ci ystannie, contants medium-			
sized calcite crystals and			
pyrite altered to limonite;		•	
ostracods		6	
Limestone, thin- to medium-			
bedded, light olivé-gray, 🚬			
oolitic, finely crystalline;			
contains some thin stringers			
of sandy limestone	4	6	
Sandstone thin- to medium-	-	-	
bedded nale-brown to white			
lime modium grained: grains			
inny, medium-grained, grains			
exhibit secondary	•		
growth	3	4	
Limestone, medium-bedded,			
light brownish-gray, oolitic,			
finely to medium-			
crystalline		11	
Sandstone, medium-bedded,			
white, limy, fine- to			
medium-grained		8	
Limestone, medium-bedded.			
light brownish-gray colitic			
finely to medium-			
ametalling		0	
Crystamme		5	
Sandstone, medium-bedded,			
yellowish-gray to white,			
limy, medium-		_	
grained	2	8	
Limestone, medium-bedded,			
brownish-gray, oolitic, finely			
to medium-crystalline;			
ostracods		6	
Limestone, medium-bedded			
brownish-gray finely to			
medium-crystalline: con-			
taine limestone granules	1	0	
Conditions thick haddad	1	0	
vollowich annu linu - adium			
yenowish-gray, niny, medium-	2	4	
grained	5	4	

.

	Ft	in
Ordovician rocks -Continued		_
Everton formation —Continued		
Limestone thin- to medium-		
bedded, light olive-gray,		
finely to medium-crystalline;		
contains limestone granules;		
ostracods	2	2
Limestone, thin-bedded,		*
finely to medium-		
crystalline		4
Sandstone, thick-bedded.		
yellowish-gray, limy,		
medium-grained; grains		
exhibit secondary		
growth	2	11
Limestone, line- to medium-		
aray finely crystalline.		
contains scattered sand		
grains	1	0
Sandstone, medium-bedded,		
yellowish-gray, limy,		
fine- to medium-		
grained	1	4
(Base of Jasper member)		
vellowish-gray dolomitic		
fine- to medium-		
. grained	2	1
Sandstone, medium-bedded,		
light olive-gray to		
yellowish-gray, dolomitic,	E	^
Dolomite medium-bedded	ວ	0
light brownish-gray		
sandy, finely		
crystalline	2	7
Sandstone, medium-bedded,		
light brownish-gray,		
dolomitic, medium-	0	0
grained	2	8
vellowish-gray, limy		
medium-grained		10
Sandstone, medium-bedded,		
light brownish-gray, very		
dolomitic, fine- to medium-	~	
grained,	3	4
vellowish-gray slightly		
limy, medium-grained:		
grains exhibit secondary		
growth	1	4
Dolomite, medium-bedded,		
brownish-gray, very		
crystalline	5	6
Dolomite, medium-bedded.	U	0
brownish-gray, sandy,		
finely crystalline	5	О
Dolomite, medium-bedded,		
brownish-gray, finely	1	0
Dolomite medium-bedded	1	0
brownish-grav, sandy.		
finely crystalline	4	С

	<u>Ft</u>	in
Ordovician rocks — Continued		
Dolomite, medium-bedded.		
brownish-gray, sandy, finely		
crystalline; contains thin		
stringers of yellowish-gray		
fine- to medium-grained		
slightly dolomitic	Б	0
Dolomite medium-bedded	0	0
brownish-gray, sandy,		
finely to medium-		
crystalline	5	4
Dolomite, medium-bedded,		
brownish-gray, dense to		
finely crystalline; contains	5	0
Sandstone medium-bedded	U	Ŭ
vellowish-grav to brownish-		
gray, dolomitic, fine- to		
medium-grained;		
ostracods	2	0
Dolomite, medium-bedded,		
brownish-gray, sandy, finely	3	0
Dolomite medium-bedded	3	0
brownish-gray, finely to		
medium-crystalline; con-		
<ul> <li>tains some thin stringers of</li> </ul>		
sandy dolomite	5	4
Dolomite, thin- to medium-		
bedded, brownish-gray,		
crystalline: contains many		
white coarse calcite and		
dolomite crystals	2	0
Dolomite, medium-bedded,		
brownish-gray, finely		
crystalline; contains white	0	e
Dolomite medium-bedded	4	0
brownish-gray, finely		
crystalline; contains scat-		
tered sand grains	2	2
Sandstone, medium-bedded,		
light brownish-gray,		
dofomitic, fine- to medium-	1	0
Dolomite, medium-bedded.	1	Ŭ
brownish-gray, finely		
crystalline; contains scattered		
sand grains	1	0
Dolomite, medium-bedded,		
line: contains scattered		
sand grains	2	9
Sandstone, medium-bedded,	_	-
light brownish-gray, dolo-		
mitic, medium-grained	1	10
Dolomite, medium-bedded,		
finely crystalline	1	Q
Dolomite, thin- to medium-	1	U
bedded, light brownish-		
gray, sandy, finely crystalline;		
sand content increases upward		
In unit (Iew scattered sand		
top)	3	4

	<u>1.</u> r	<u></u>
Ordovician rocks -Continued		
Everton formation Continued		
Sandstone, medium-bedded,		
vellowish-grav, limy,		
medium-grained: contains		
stringers of light brownish-		
arru dolomitia modium-		
gray dolomitic medium-	0	0
grained sandstone	2	3
Sandstone, medium-bedded,		
yellowish-gray to light		
brownish-gray, slightly		
limy, fine- to medium-		
grained: contains stringers		
of light brownish-gray dolo-		
mitia fina to modium		
mitic ine- to medium-		~
grained sandstone	4	0
Dolomite, very thin bedded,		
brownish-gray, slightly		
sandy, finely crystalline		1
Sandstone, medium-bedded.		
vellowish-gray limy fine-		
to modium grained con		
to medium-gramed, con-		
<ul> <li>tains stringers of light-</li> </ul>		
brownish-gray dolomitic		
fine- to medium-grained		
sandstone		11
Newton sandstone member:		•
Sandstone medium-bedded		
vollowich grou clightly		
yenowish-gray, slightly		
simy, fine- to mealum-		~
grained	4	9
Sandstone, medium- to thick-		
bedded, yellowish-gray,		
slightly limy, fine- to medium-		
arained	3	8
Sandstono massivo vollovich	U	0
bandstone, massive, yenowish-		
gray, limy, line- to medium-		
grained; lime content increases	5	
downward; grains exhibit much		
secondary growth	5	0
(Base of Newton sandstone member)		
Limestone, medium-bedded light	t	
olive-gray sandy finely	-	
crustalling		10
Timestens this hedded align		10
Limestone, thin-bedded, onve-		
gray, slightly dolomitic,		
dense to finely crystalline		4
Limestone, thin-bedded, olive-		
gray, sandy, slightly dolomitic		
finely crystalline		7
Limestone, medium-bedded		
light olive_gray very sandy		
finals associations		0
innery crystalline		0
Sandstone, medium-bedded, light		
olive-gray, very limy,		
medium-grained		7
Limestone, medium-bedded,		
medium-gray, finely crystal-		
line: contains white coarse		
calcite crustale	2	2
Sandstone modium hadded	2	2
bandstone, medium-bedded,		
yellowish-gray, slightly		
limy to dolomitic, fine- to		
medium-grained; grains		
exhibit secondary		
growth	2	5
Base of section at river level.		

G. Section of the St. Peter sandstone and Everton formation on the north side of the Buffalo River in the NE<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec. 34, T. 16 N., R. 19 W., Newton County, Ark. Base of section at river level.

	Ft	in
Ordovician rocks:		
Plattin limestone.		
St. Peter sandstone:		
Sandstone, poorly exposed, medium-		
bedded, light-brown, silty, limy,		
slightly dolomitic, fine-		
grained	4	0
Covered interval	13	õ
Sondstone badly weathered thin-	10	Ŭ
ballusione, badry weathered, thin-		
to meanum-bedded, yenowish-		
gray, very line to line-	~	_
grained	2	1
Sandstone, medium-bedded,		
yellowish-gray, very fine to		
fine-grained with scattered		
coarse grains; grains exhibit		
secondary growth	4	7
Sandstone, medium-bedded.		
crossbedded, vellowish-grav to		
brownish-gray fine-grained:		
arains exhibit secondary		
growth	3	10
Sendetene this hedded vellowish	U	10
Sandstone, tinn-bedded, yenowisi-		
gray, line- to mealum-	-	
grained	1	4
· · · · · · · · · · · · · · · · · · ·		
	29	4
Everton formation:		
Everton formation: Jasper member:		
Everton formation: Jasper member: Dolomite, thin- to medium-		
Everton formation: Jasper member: Dolomite, thin- to medium- bedded,brownish-gray,		
Everton formation: Jasper member: Dolomite, thin- to medium- bedded,brownish-gray, sandy, medium-crystalline;		
Everton formation: Jasper member: Dolomite, thin- to medium- bedded, brownish-gray, sandy, medium-crystalline; contains thin stringers of		
Everton formation: Jasper member: Dolomite, thin- to medium- bedded, brownish-gray, sandy, medium-crystalline; contains thin stringers of dolomitic sandstone	4	1
Everton formation: Jasper member: Dolomite, thin- to medium- bedded, brownish-gray, sandy, medium-crystalline; contains thin stringers of dolomitic sandstone	4	17
Everton formation: Jasper member: Dolomite, thin- to medium- bedded, brownish-gray, sandy, medium-crystalline; contains thin stringers of dolomitic sandstone Covered interval	4	1 7
Everton formation: Jasper member: Dolomite, thin- to medium- bedded, brownish-gray, sandy, medium-crystalline; contains thin stringers of dolomitic sandstone Covered interval Dolomite, thin-bedded, brownish gray sandy	4	1 7
Everton formation: Jasper member: Dolomite, thin- to medium- bedded, brownish-gray, sandy, medium-crystalline; contains thin stringers of dolomitic sandstone Covered interval Dolomite, thin-bedded, brownish-gray, sandy,	4	17
Everton formation: Jasper member: Dolomite, thin- to medium- bedded, brownish-gray, sandy, medium-crystalline; contains thin stringers of dolomitic sandstone Covered interval Dolomite, thin-bedded, brownish-gray, sandy, finely crystalline	4	1 7 4
Everton formation: Jasper member: Dolomite, thin- to medium- bedded, brownish-gray, sandy, medium-crystalline; contains thin stringers of dolomitic sandstone Covered interval Dolomite, thin-bedded, brownish-gray, sandy, finely crystalline Dolomite, thin-bedded, dark-	4	1 7 4
Everton formation: Jasper member: Dolomite, thin- to medium- bedded, brownish-gray, sandy, medium-crystalline; contains thin stringers of dolomitic sandstone Covered interval Dolomite, thin-bedded, brownish-gray, sandy, finely crystalline Dolomite, thin-bedded, dark- gray, medium-	4	1 7 4
Everton formation: Jasper member: Dolomite, thin- to medium- bedded, brownish-gray, sandy, medium-crystalline; contains thin stringers of dolomitic sandstone Covered interval Dolomite, thin-bedded, brownish-gray, sandy, finely crystalline Dolomite, thin-bedded, dark- gray, medium- crystalline	4	1 7 4 3
Everton formation: Jasper member: Dolomite, thin- to medium- bedded, brownish-gray, sandy, medium-crystalline; contains thin stringers of dolomitic sandstone Covered interval Dolomite, thin-bedded, brownish-gray, sandy, finely crystalline Dolomite, thin-bedded, dark- gray, medium- crystalline Dolomite, medium-bedded,	4	1 7 4 3
Everton formation: Jasper member: Dolomite, thin- to medium- bedded, brownish-gray, sandy, medium-crystalline; contains thin stringers of dolomitic sandstone Covered interval Dolomite, thin-bedded, brownish-gray, sandy, finely crystalline Dolomite, thin-bedded, dark- gray, medium- crystalline Dolomite, medium-bedded, brownish-gray, sandy,	4	1 7 4 3
Everton formation: Jasper member: Dolomite, thin- to medium- bedded, brownish-gray, sandy, medium-crystalline; contains thin stringers of dolomitic sandstone Covered interval Dolomite, thin-bedded, brownish-gray, sandy, finely crystalline Dolomite, thin-bedded, dark- gray, medium- crystalline Dolomite, medium-bedded, brownish-gray, sandy, finely crystalline	4 1	1 7 4 3
Everton formation: Jasper member: Dolomite, thin- to medium- bedded, brownish-gray, sandy, medium-crystalline; contains thin stringers of dolomitic sandstone Covered interval Dolomite, thin-bedded, brownish-gray, sandy, finely crystalline Dolomite, thin-bedded, dark- gray, medium- crystalline Dolomite, medium-bedded, brownish-gray, sandy, finely crystalline Dolomite, medium-bedded,	4 1 3	1 7 4 3 10
Everton formation: Jasper member: Dolomite, thin- to medium- bedded, brownish-gray, sandy, medium-crystalline; contains thin stringers of dolomitic sandstone Dolomite, thin-bedded, brownish-gray, sandy, finely crystalline Dolomite, thin-bedded, dark- gray, medium- crystalline Dolomite, medium-bedded, brownish-gray, sandy, finely crystalline Dolomite, medium-bedded, brownish-gray, medium-	4 1 3	1 7 4 3 10
Everton formation: Jasper member: Dolomite, thin- to medium- bedded, brownish-gray, sandy, medium-crystalline; contains thin stringers of dolomitic sandstone Covered interval Dolomite, thin-bedded, brownish-gray, sandy, finely crystalline Dolomite, thin-bedded, dark- gray, medium- crystalline Dolomite, medium-bedded, brownish-gray, sandy, finely crystalline Dolomite, medium-bedded, brownish-gray, medium- crystalline	4 1 3	1 7 4 3 10
Everton formation: Jasper member: Dolomite, thin- to medium- bedded, brownish-gray, sandy, medium-crystalline; contains thin stringers of dolomitic sandstone Covered interval Dolomite, thin-bedded, brownish-gray, sandy, finely crystalline Dolomite, thin-bedded, dark- gray, medium- crystalline Dolomite, medium-bedded, brownish-gray, sandy, finely crystalline Dolomite, medium-bedded, brownish-gray, medium- crystalline; contains scat- tared sand gray is hower	4 1 3	1 7 4 3 10
Everton formation: Jasper member: Dolomite, thin- to medium- bedded, brownish-gray, sandy, medium-crystalline; contains thin stringers of dolomitic sandstone Covered interval Dolomite, thin-bedded, brownish-gray, sandy, finely crystalline Dolomite, medium- crystalline Dolomite, medium-bedded, brownish-gray, sandy, finely crystalline Dolomite, medium-bedded, brownish-gray, medium- crystalline; contains scat- tered sand grains in lower bols of weit	4 1 3	1 7 4 3 10
Everton formation: Jasper member: Dolomite, thin- to medium- bedded, brownish-gray, sandy, medium-crystalline; contains thin stringers of dolomitic sandstone Covered interval Dolomite, thin-bedded, brownish-gray, sandy, finely crystalline Dolomite, thin-bedded, dark- gray, medium- crystalline Dolomite, medium-bedded, brownish-gray, sandy, finely crystalline Dolomite, medium-bedded, brownish-gray, medium- crystalline; contains scat- tered sand grains in lower half of unit	4 1 3	1 7 4 3 10 7
Everton formation: Jasper member: Dolomite, thin- to medium- bedded, brownish-gray, sandy, medium-crystalline; contains thin stringers of dolomitic sandstone Covered interval Dolomite, thin-bedded, brownish-gray, sandy, finely crystalline Dolomite, thin-bedded, dark- gray, medium- crystalline Dolomite, medium-bedded, brownish-gray, sandy, finely crystalline Dolomite, medium-bedded, brownish-gray, medium- crystalline; contains scat- tered sand grains in lower half of unit	4 1 3	1 7 4 3 10 7
Everton formation: Jasper member: Dolomite, thin- to medium- bedded, brownish-gray, sandy, medium-crystalline; contains thin stringers of dolomitic sandstone Dolomite, thin-bedded, brownish-gray, sandy, finely crystalline Dolomite, thin-bedded, dark- gray, medium- crystalline Dolomite, medium-bedded, brownish-gray, sandy, finely crystalline Dolomite, medium-bedded, brownish-gray, medium- crystalline; contains scat- tered sand grains in lower half of unit Dolomite, medium-bedded, light-brown, sandy, finely	4 1 3	1 7 4 3 10 7
Everton formation: Jasper member: Dolomite, thin- to medium- bedded, brownish-gray, sandy, medium-crystalline; contains thin stringers of dolomitic sandstone Covered interval Dolomite, thin-bedded, brownish-gray, sandy, finely crystalline Dolomite, thin-bedded, dark- gray, medium- crystalline Dolomite, medium-bedded, brownish-gray, sandy, finely crystalline Dolomite, medium-bedded, brownish-gray, medium- crystalline contains scat- tered sand grains in lower half of unit Dolomite, medium-bedded, light-brown, sandy, finely crystalline	4 1 3	1 7 4 3 10 7 0
Everton formation: Jasper member: Dolomite, thin- to medium- bedded, brownish-gray, sandy, medium-crystalline; contains thin stringers of dolomitic sandstone Covered interval Dolomite, thin-bedded, brownish-gray, sandy, finely crystalline Dolomite, thin-bedded, dark- gray, medium- crystalline Dolomite, medium-bedded, brownish-gray, sandy, finely crystalline Dolomite, medium-bedded, brownish-gray, medium- crystalline; contains scat- tered sand grains in lower half of unit Dolomite, medium-bedded, light-brown, sandy, finely crystalline	4 1 3	1 7 4 3 10 7 0
Everton formation: Jasper member: Dolomite, thin- to medium- bedded, brownish-gray, sandy, medium-crystalline; contains thin stringers of dolomitic sandstone Covered interval Dolomite, thin-bedded, brownish-gray, sandy, finely crystalline Dolomite, medium-bedded, brownish-gray, sandy, finely crystalline Dolomite, medium-bedded, brownish-gray, medium- crystalline Dolomite, medium-bedded, brownish-gray, medium- crystalline; contains scat- tered sand grains in lower half of unit Dolomite, medium-bedded, light-brown, sandy, finely crystalline	4 1 3	1 7 4 3 10 7 0
Everton formation: Jasper member: Dolomite, thin- to medium- bedded, brownish-gray, sandy, medium-crystalline; contains thin stringers of dolomitic sandstone Covered interval Dolomite, thin-bedded, brownish-gray, sandy, finely crystalline Dolomite, thin-bedded, dark- gray, medium- crystalline Dolomite, medium-bedded, brownish-gray, sandy, finely crystalline Dolomite, medium-bedded, brownish-gray, medium- crystalline; contains scat- tered sand grains in lower half of unit Dolomite, medium-bedded, light-brown, sandy, finely crystalline Sandstone, medium-bedded, light-brown to light olive- gray, dolomitic, medium-	4 1 3	1 7 4 3 10 7 0
Everton formation: Jasper member: Dolomite, thin- to medium- bedded, brownish-gray, sandy, medium-crystalline; contains thin stringers of dolomitic sandstone Covered interval Dolomite, thin-bedded, brownish-gray, sandy, finely crystalline Dolomite, thin-bedded, dark- gray, medium- crystalline Dolomite, medium-bedded, brownish-gray, sandy, finely crystalline Dolomite, medium-bedded, brownish-gray, medium- crystalline; contains scat- tered sand grains in lower half of unit Dolomite, medium-bedded, light-brown, sandy, finely crystalline Sandstone, medium-bedded, light-brown to light olive- gray, dolomitic, medium- grained	4 1 3	1 7 4 3 10 7 0 9
Everton formation: Jasper member: Dolomite, thin- to medium- bedded, brownish-gray, sandy, medium-crystalline; contains thin stringers of dolomitic sandstone Covered interval Dolomite, thin-bedded, brownish-gray, sandy, finely crystalline Dolomite, thin-bedded, dark- gray, medium- crystalline Dolomite, medium-bedded, brownish-gray, sandy, finely crystalline Dolomite, medium-bedded, brownish-gray, medium- crystalline contains scat- tered sand grains in lower half of unit Sandstone, medium-bedded, light-brown to light olive- gray, dolomitic, medium- grained	4 1 3	1 7 4 3 10 7 0 9
Everton formation: Jasper member: Dolomite, thin- to medium- bedded, brownish-gray, sandy, medium-crystalline; contains thin stringers of dolomitic sandstone Covered interval Dolomite, thin-bedded, brownish-gray, sandy, finely crystalline Dolomite, thin-bedded, dark- gray, medium- crystalline Dolomite, medium-bedded, brownish-gray, sandy, finely crystalline Dolomite, medium-bedded, brownish-gray, medium- crystalline; contains scat- tered sand grains in lower half of unit Dolomite, medium-bedded, light-brown, sandy, finely crystalline Sandstone, medium-bedded, light-brown to light olive- gray, dolomitic, medium- grained	4 1 3	1 7 4 3 10 7 0 9
Everton formation: Jasper member: Dolomite, thin- to medium- bedded, brownish-gray, sandy, medium-crystalline; contains thin stringers of dolomitic sandstone Covered interval Dolomite, thin-bedded, brownish-gray, sandy, finely crystalline Dolomite, medium-bedded, brownish-gray, sandy, finely crystalline Dolomite, medium-bedded, brownish-gray, medium- crystalline; contains scat- tered sand grains in lower half of unit Dolomite, medium-bedded, light-brown, sandy, finely crystalline Sandstone, medium-bedded, light-brown to light olive- gray, dolomitic, medium- grained Dolomite, medium-bedded, light brownish-gray, medium- grained	4 1 3	1 7 4 3 10 7 0 9
Everton formation: Jasper member: Dolomite, thin- to medium- bedded, brownish-gray, sandy, medium-crystalline; contains thin stringers of dolomitic sandstone Covered interval Dolomite, thin-bedded, brownish-gray, sandy, finely crystalline Dolomite, thin-bedded, dark- gray, medium- crystalline Dolomite, medium-bedded, brownish-gray, sandy, finely crystalline Dolomite, medium-bedded, brownish-gray, medium- crystalline; contains scat- tered sand grains in lower half of unit Dolomite, medium-bedded, light-brown, sandy, finely crystalline Sandstone, medium-bedded, light-brown to light olive- gray, dolomitic, medium- grained Dolomite, medium-bedded, light brownish-gray, medium- crystalline; slightly silty in lower port	4 1 3 1	1 7 4 3 10 7 0 9

Ordovician rocks -Continued	Ft	in
Everton formation -Continued		
Jasper member —Continued		
Sandstone, medium-bedded,		
yellowish-gray, slightly		
dolomitic, fine- to medium-		
grained; grains exhibit	Λ	Λ
Dolomite thin-hedded	7	Ŧ
gravish vellow green silty		
finely crystalline: contains		
scattered sand grains and		
some white coarse calcite		
crystals	1	10
Dolomite, medium-bedded,		
brownish-gray, slightly	_	_
silty, finely crystalline	2	8
Dolomite, thin-bedded,		
brownish-gray, medium-		
crystalline; contains scat-		А
ered sand grains		7
light brownish-gray dolomitic		
medium-grained	2	4
Sandstone, medium-bedded.	2	-
vellowish-grav, very limy.		
medium-grained;		
ostracods	2	3
Covered interval	3	0
. Limestone, medium-bedded,		
light olive-gray, oolitic, dense		
to finely crystalline; many		
ostracods	2	0
Limestone, medium-bedded,		
light olive-gray, finely		
crystalline; contains		
inmestone granules;	1	0
Limestone medium-bedded	1	Ŭ
light olive-gray, sandy.		
finely crystalline; contains		
limestone granules;		
ostracods	2	11
Limestone, medium-bedded,		
light olive-gray, oolitic,		
dense to finely crystalline;		_
ostracods		5
Dolomite, medium-bedded,		
iight brownish-gray, mealum-		
coarse calcite crystals	1	1
Dolomite thin-bedded light	1	1
brownish-grav. sandy.		
medium-crystalline; con-		
tains white coarse calcite		
crystals		4
Limestone, medium-bedded,		
yellowish-gray to light olive-		
gray, oolitic, finely crystal-	~	_
line; ostracods	3	2
Dolomite, mealum-beaded,		
finaly to modium -		
crystalline		6
Sandstone. medium-bedded		Ŭ
yellowish-gray, limy, fine-		
to medium-grained; grains		
exhibit secondary		
growth	3	6

	Ft	in
Ordovician rocks — Continued		
Lasper member Continued		
Limestone, medium-bedded.		
light olive-gray, oolitic		
and oolitoid, finely crystal-		
line; ostracods in lower		
4 inches	2	2
Sandstone, medium-bedded,		
yellowish-gray, limy, fine-		
to medium-grained; grains	•	
exhibit secondary growth	Z	1
Limestene thing to medium-		J
bedded light olive-grav		
colitic finely crystalline		8
Covered interval		5
Sandstone thin- to medium-		Ŭ
bedded, vellowish-gray.		
medium-grained; grains		
exhibit secondary		
growth	2	4
(Base of Jasper member)		
Sandstone, thin-bedded, yellowis	sh-	
gray, dolomitic, medium-		
grained		4
Dolomite, medium-bedded,		
light brownish-gray, linely		
to medium-crystalline; con-		
crustals and scattered sand		
grains	1	8
Sandstone, thin-bedded.	-	Ŭ
vellowish-gray to light brownis	sh-	
gray, very dolomitic, fine- to		
medium-grained;		
ostracods	3	8
Sandstone, medium-bedded,		
light brownish-gray, very		
dolomitic, fine- to		
medium-grained	4	11
Dolomite, medium-bedded,		
light brownish-gray, sandy,		
very linely granular; contains		
winte coarse calcite	2	10
Dolomite medium.bedded	2	10
light brownish-gray. slightly		
limy, sandy, finely		
crystalline	4	11
Dolomite, thin- to medium-		
bedded, brownish-gray,		
finely crystalline; cryptozoon(	?)	
structures	1	2
Sandstone, medium-bedded,		
light brownish-gray, very		
dolomitic, line- to coarse-		

grained; slightly limy in

upper half ..... 2 7 Sandstone, thin- to medium-

bedded, yellowish-gray, slightly limy, medium-grained; grains exhibit secondary growth

Dolomite, thin-bedded, brownish-

gray, dense .....

yellowish-gray, slightly limy,

medium-grained .....

Sandstone, thin-bedded,

Ordovician rocks -Continued	—	_
Everton formation —Continued		
Dolomite, medium-		
bedded, light-gray to		
brownish-gray, sandy,	~	
finely granular	2	7
Dolomite, mealum-bedded,		
brownish-gray, sandy, linely		
granular; contains thin		
stringers	1	0
Sandstone thin-bedded	1	0
light brownish-gray limy		
medium-grained		4
Dolomite medium- to thick-		-
bedded, brownish-gray.		
sandy, finely		
crystalline	2	11
Dolomite, thin-bedded,		
brownish-gray, sandy, finely		
crystalline; contains medium-		
sized calcite crystals;		
ostracods		4
Dolomite, medium-bedded,		
brownish-gray, dense to		
very finely granular; con-		
tains scattered sand grains		
and white coarse calcite		
crystals	2	6
Sandstone, medium- to thick-		
bedded, brownish-gray,		
dolomitic, fine- to medium-		
grained; contains white coarse	-	_
calcite crystals	2	7
Dolomite, thin-bedded,		
brownish-gray, sandy, dense		
to very linely granular; con-		
tains thin stringers of	1	0
Delemite medium to thick	T	0
bodded brownish-gray very		
sandy: contains white coarse		
calcite crystals	4	8
Sandstone, medium-bedded.	-	Ŭ
vellowish-grav, limy, fine-		
to medium-grained		8
Sandstone, medium-bedded.		-
light brownish-gray.		
dolomitic, fine- to medium-		
grained		10
Sandstone, medium-bedded,		
yellowish-gray, limy, fine-		
to medium-grained		6
Dolomite, medium-bedded,		
brownish-gray, finely		
crystalline		6
Sandstone, medium-bedded,		
light brownish-gray, dolomitic	2,	
Time- to measur-		e
Sandstono medium-boddod		0
vellowish-grav ling fino		
to medium-gray, miny, mile-		6
Sandstone medium-		Ŭ
bedded, light brownish-		
gray, dolomitic, fine-		
to medium-		
grained	1	0

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	Ft	in
Ordovician rocks -Continued		
Everton formation — Continued		
gray sandy siliceous		
dense		4
Dolomite, medium-bedded,		
brownish-gray, very sandy,		
finely to medium-		
crystalline	1	8
Dolomite, medium-bedded,		
prownish-gray, linely to		
scattered sand grains	1	0
Sandstone, thin-bedded,	-	Ū
yellowish-gray, slightly		
limy, medium-grained;		
grains exhibit secondary		-
growth		5
Sandstone, thin- to medium-		
grav dolomitic fine to		
medium-grained		10.
Covered interval	1	0.
Sandstone, medium-bedded,		
yellowish-gray, slightly		
limy, fine- to medium-		
grained; grains exhibit second-	~	-
ary growth	2	7
light brownish-gray sandy		
finely crystalline: contains		
thin stringers of limy		
sandstone	2	0
Sandstone, medium-bedded,		
yellowish-gray, limy, fine-		
to medium-grained	1	6
Dolomite, mealum-grainea,		
finely crystalline: contains		
stringers of nonsandy dolo-		
mite and dolomitic		
sandstone	2	6
Dolomite, medium-bedded,		
light brownish-gray, finely		A
to medium crystalline	T	4
light brownish-gray finely		
to medium crystalline;		
contains white fine to coarse		
calcite crystals	4	11
Dolomite, thin-bedded, light		
olive-gray to brownish-gray,		
rinely to meatum-	1	5
Dolomite, medium-bedded:	1	U
light olive-gray to brownish-		
gray, dense to finely crystal-		
line; contains scattered		-
sand grains	2	3
Dolomite, medium-bedded,		
hrownish-gray with streaks		
and spots of dark-gray		
very finely granular; con-		
tains scattered sand		
grains	1	0
Dolomite, medium-bedded,		
light brownish-gray, sandy,	1	0
very intery granular	1	0

Ordovician rocks -Continued		
Everton formation —Continued		
Dolomite, medium-		
bedded, light brownish-		
gray, finely crystalline;		
contains scattered sand	1	0
Delemite medium-bedded	1	Ų
light brownish-gray		
finely crystalline	1	0
Dolomite, medium-bedded.	-	
brownish-gray to dark-		
gray, very finely granu-		
lar; contains scattered		
sand grains increasing		
in abundance	_	
downward	2	10
Sandstone, medium-bedded,		
yellowish-gray, dolo-		
mitic, medium-grained;		
. grains exhibit secondary	1	0
Dolomite medium-bedded	1	0
light olive-gray to light		
brownish-gray, slightly		
limy, finely crystalline;		
contains white coarse		
calcite crystals; scattered		
sand grains in the upper		
. 4 inches	2	9
Sandstone, medium-bedded,		
yellowish-gray, dolomitic,		
slightly limy, fine- to	0	0
coarse-grained	3	3
Dolomite, mealum-bedded,		
limy finaly		
crystalline		10
Sandstone, medium-bedded.		10
vellowish-grav. dolomitic.		
slightly limy, fine- to		
coarse-grained	2	11
Sandstone, medium-bedded,		
yellowish-gray to light		
olive-gray, dolomitic,		
slightly limy, medium-	~	
grained	2	10
Dolomite, mealum-beadea,		
slightly limy medium-		
crystalline: contains scat-		
tered sand grains	1	2
Sandstone, medium-bedded,	-	-
yellowish-gray, dolomitic,		
slightly limy, fine- to		
coarse-grained; contains		
white coarse calcite		
crystals	1	3
Newton sandstone member:		
vollowish grou slightly		
limy fine to coarse		
grained	5	0
Sandstone, thin- to medium-	Ū	
bedded, vellowish-grav.		
limy, fine- to coarse-		
grained	5	0
(Base of Newton sandstone member)		

<u>Ft</u> in

	Ft	in
Ordovician rocks —Continued Everton formation —Continued		
Limestone, medium-		
bedded, medium-gray,		
sandy, very finely		
granular	1	4
medium-gray, oolitic very		
finely granular; contains		
scattered sand grains	2	1
Limestone, medium-bedded,		
medium-gray, oolitic,	1	e
Sandstono medium-bedded	T	0
vellowish-gray, very limy.		
fine- to coarse-grained	1	10
Dolomite, medium-bedded,		
yellowish-gray to light		
olive-gray, very limy,		
finely to medium-	9	e
Limestone medium-bedded	2	0
light-gray, very dolomitic.		
slightly sandy, finely to		
medium-crystalline; loosely		
coiled cephalopods or		
gastropods, small ostracods,		10
and pelecypods(?)		10
Limestone, medium-bedded,		
finely to medium-		
crystalline	1	3
Limestone, medium-bedded,		
light-gray to light olive-		
gray, slightly dolomitic,		0
Inely crystalline	1	3
vellowish-grav limy fine-		
to medium-grained		2
Limestone, medium-bedded,		
light-gray to light olive-		
gray, slightly dolomitic,		-
finely crystalline	1	5
Limestone, medium-bedded,		
finely crystalline		10
Limestone, thin-bedded,		10
light olive-gray, oolitoid,		
slightly dolomitic, finely		-
to medium-crystalline	1	5
vellowish-grav to light		
olive-gray. limy, fine-		
to coarse grained		6
Limestone, medium-bedded,		
yellowish-gray to light		
olive-gray, sandy, finely	,	1
Limostono medium-bodded	T	1
light olive-gray slightly		
dolomitic, very finely		
granular to finely		
crystalline; well-developed		
cryptozoon	0	10
Structures	3	10
vellowish-aray limy		
fine- to medium-		
grained	1	4

	Ft	in
Ordovician rocks -Continued	_	
Everton formation —Continued		
Dolomite, medium-bedded,		
yellowish-gray to light		
brownish-gray, sandy,		
slightly limy, medium-		c
Delemite medium hedded		0
Dolomite, mealum-beaded,		
brownish gray colightly		
limy medium-		
crustalline		10
Limestone medium-bedded		10
light-gray sandy yory		
finely granular	1	3
Limestone, medium-bedded.	-	Ŭ
vellowish-gray, very sandy.		
very finely granular	4	4
Dolomite medium-bedded.	-	-
brownish-gray, sandy,		
slightly limy, finely		
crystalline: contains		
thin stringers of slightly		
limy, dolomitic		
sandstone		11
Dolomite, thick-bedded, medium	n	
light gray to light brownish-		
gray, finely to medium-		
crystalline; contains scattere	d	
sand grains	1	5
Dolomite, thick-bedded,		
light brownish-gray, sandy,		
finely crystalline	1	0
Dolomite, platy to thin-		
bedded, light olive-gray,		
limy, finely to medium-cryst	al-	
line; sandy at base; well-		
developed cryptozoon		
structures	3	1
Dolomite, medium-bedded,		
yellowish-gray, very		
sandy, finely to medium-		
crystalline		10
Dolomite, medium-bedded,		
yellowish-gray to brownish-		
gray, finely to medium-		
crystalline; contains thin		
stringers of sandy		
dolomite	4	1
Sandstone, medium-bedded,		
yellowish-gray, dolomitic,		
line- to medium-grained;		
contains thin stringers of		
provinsn-gray dolomite,		
grants exhibit secondary	2	7
Quartz growth	3	1
bedded brownish area		
medium-crustallino	1	10
Dolomite medium-bedded	1	10
light brownish-gray slightly		
limy, medium-crystalline:		
contains stringers of sandy		
dolomite	3	9
Dolomite, medium-bedded		·
medium light grav to		
brownish-gray, medium-		
crystalline; contains scat-		
tered sand grains	4	4

Orderigian reaks . Continued			Ordor
Draovician rocks - Continued			Uradi
Everior formation - Continued			Ľ
Dolomite, meaium-beadea,			
brownish-gray to olive-			
gray, medium-			
crystalline	3	6	
Dolomite, medium-bedded,			
brownish-gray to olive-			
gray, very sandy, medium-			
crystalline	1	6	
Dolomite medium-bedded	-		
light brownish-gray to			
brownish-gray sandy			
modium arustallino: con-			
teine yorr sendy delemite			
tams very sandy dotomite			
stringers in a darker, sandy			
dolomite; sand grains at the			
more sandy beds exhibit			
secondary growth	2	10	
Dolomite, medium-bedded,			
medium-gray to brownish-			
gray, medium-crystalline;			
contains thin, sandy dolo-		•	
mite stringers		6	
Dolomite medium-bedded		Ŭ	
medium-grav to brownish-			
areu modium			
gray, meutum-	2	e	
crystalline	3	0	
Sandstone, medium-bedded,			
yellowish-gray, dolomitic,			
fine- to medium-grained.			
The dolomite cement increases			
downward and the unit becomes			
sandy dolomite at the			
base	1	0	
Dolomite, medium-bedded,			
brownish-gray, medium-			
crystalline	2	8	
Dolomite medium-bedded	-	Ŭ	
light brownish-gray slightly			
limu medium-grustallino:			
anticing continend cond			
contains scattered sand	c	0	
grains	ວ	0	
Dolomite, medium-bedded,			
light brownish-gray, medium-			
crystalline; contains thin			
sandstone stringers and scat-			Base
tered sand grains	5	0	
Dolomite, medium-bedded, light			
brownish-gray, finely to			
medium-crystalline: contains			н. S
thin sandstone stringers and			
scattered sand grains	5	0	
Delemite medium-bodded	Ũ	Ŭ	
light brownish_gray_finoly			
inght brownish-gray, inlery			
to medium-crystalline; con-		-	
tains scattered sand grains	4	1	
Dolomite, thin- to medium-			Carb
bedded, brownish-gray, finely			]
to medium-crystalline; contains	5		
scattered sand grains	3	6	
Dolomite, thin- to medium-			
bedded, brownish-gray, finely			
to medium-crystalline; contains	5		
scattered sand grains and thin			
sandstone stringers	1	6	
Current of the second s	-		

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	Ft	in
Ordovician rocks —Continued	_	
Everton formation -Continued		
Dolomite, thin- to medium-		
bedded, light brownish-		
gray to light olive-gray,		
finely to medium-crystalline;		
contains thin siliceous sand-		
stone stringers that weather		
out in wavy bands	5	0
Dolomite, medium-bedded,		
light olive-gray to brownish-		
gray medium-crystalline:		
to coarsely crystalline	3	4
Dolomite thin- to medium-		7
boddod light brownich group	-	
bedded, fight brownish-gray	10	
to light only-gray, linely		
to medium-crystalline; con-		
tains scattered sand grains		
and thin stringers of sandy		
dolomite	. 5	7
Dolomite, medium-bedded,		
* light brownish-gray, finely		
to medium-crystalline; con-		
tains thin sandy dolomite		
stringers and scattered		
sand grains	5	0
Dolomite medium-to		Ŭ
thick-bedded light brownish.		
gray finely to medium-		
crustalline: contains thin		
crystannie, contains tim		
and septtored send		
and scattered sand	4	10
	. 4	10
Sandstone, thin-bedded, white		
to medium light gray,		
quartzitic, fine- to medium-		
grained; grains exhibit much		_
secondary growth		8
Dolomite, medium- to thick-		
bedded, light olive-gray,		
finely to medium crystalline;		
contains sandy dolomite		
stringers less than 3 inches		
thick and scattered sand		
grains	. 5	2
Base of section at river level		
	281	9
•		_

H. Section of the St. Peter sandstone and Everton formation on the north side of the Buffalo River in the SW¼SW¼ sec. 26, T. 16 N., R. 19 W., Newton County, Ark. Base of section 15 feet above river level.

Carboniferous (Mississippian ) rocks: Boone formation: St. Joe limestone member.

> Covered interval to top of hill. Contains float blocks of chert from the Boone formation and limestone from the St. Joe limestone member.

Ordovician rocks:		
St. Peter sandstone: Sandstone, thick-bedded to massive, white, fine- to medium- grained; grains exhibit much		
secondary growth Sandstone, medium- to thick- bedded, yellowish-gray, fine- to medium aminod: amino	4	3
exhibit secondary	•	
growth Covered interval Sandstone, medium- to thick- bedded, yellowish-gray to white, fine- to medium-grained;	3 58	0
grains exhibit secondary growth	6	9
	72	11
Everton formation:		
Jasper member:		
bedded, medium-gray to		
brownish-gray, slightly silty finally to modium.		
crystalline	2	0
Sandstone, thin- to medium-		
dolomitic, fine- to medium-		
grained	1	0
Sandstone, thin- to medium-		
slightly limy, fine- to medi-		
grained; grains exhibit		
secondary growth		10
thick-bedded, brownish-gray,		
very sandy, finely		
Crystalline	3	3
brownish-gray, sandy, finely		
crystalline	1	6
Sandstone, medium-bedded, vellowish-gray, dolomitic		
slightly limy, fine- to		
medium-grained		6
brownish-gray, medium-		
crystalline	1	7
Sandstone, medium- to thick-		
fine- to medium-grained;		
grains exhibit secondary		0
growth Dolomite (weathers back and	Z	8
could not be adequately		
sampled), medium-bedded,		
crystalline	1	0
Dolomite, medium-bedded,		
brownish-gray, slightly silty finely to medium-		
crystalline	2	3
Dolomite, thin- to medium-		
medium-crystalline	1	6

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Everton formation—Continued		
Jasper member — Continued		
Dolomite, thin- to medium-		
bedded, light brownish-gray,		
very finely granular; con-		
in the lower part	2	0
Sandstone, medium- to thick-	2	Ŭ
bedded, yellowish-gray to		
white, limy, dolomitic, fine-		
to medium-grained	1	11
Dolomite, medium-bedded,		
finely to medium-crystalline:		
contains scattered sand		
grains		10
Limestone, thick-bedded, olive-		
gray, sandy, dense to finely		~
crystalline; ostracods	1	2
areonish arry and vollowish		
grav limy fine- to medium-		
grained; contains sandy limest	one	
concretions 1 to 2 inches in		
diameter	1	1
Limestone, very thin to thin-		
bedded, yellowish-gray to		
olive-gray, sandy, finely	1	0
Limestone very thin to thin-	1	0
bedded, olive-gray, oolitic.		
dense to very finely		
granular	2	3
Dolomite, badly weathered,		
very thin to thin-bedded,		
pale-office to grayish-office,		
crystalline	1	6
Dolomite, medium-bedded.	-	Ũ
brownish-gray, finely to		
medium-crystalline	3	6
Dolomite, medium-bedded,		
light olive-gray to light		
limy medium-		
crystalline	1	9
Dolomite, medium-bedded,		
light olive-gray to light		
brownish-gray, slightly limy,		
medium-crystalline;contains	0	0
Dolomite medium-bedded	2	0
gravish-orange pink to pale-		
olive, medium-crystalline;		
contains scattered sand		
grains	2	0
Limestone, medium-bedded,		
to finely crystalline		6
Dolomite, thick-bedded, light-		0
gray to light brownish-gray.		
slightly limy, medium-		
crystalline	2	0
Sandstone, medium-bedded,		
yerv fire to medium-grained	•	
grains exhibit secondary		
growth	2	3

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Ordovician rocks -Continued	_	
Everton formation —Continued		
Jasper member Continued		
Sandstone, medium-bedded,		
light brownish-gray, very		
dolomitic, fine- to medium-		
grained		6
Limestone, medium-bedded,		
medium-gray to light olive-		
gray, sandy, finely		
crystalline		6
Limestone, medium-bedded,		
medium-gray to light olive-		
gray, colitic, dense to finely		-
crystalline; ostracods	1	8
Sandstone, thick-bedded,		
yellowish-gray to white, very		
limy, fine- to medium-	~	
grained	2	9
Limestone, medium-bedded, me-		
dium-gray to olive-gray, oolitic		
dense to finely crystalline	1	3
Sandstone, medium- to thick-		
bedded, yellowish-gray to		
white, limy, fine- to medium-		_
grained	1	- 7
Sandstone, medium- to		
thick-bedded, yellowish-gray		
to brownish-gray, dolomitic,		
limy, fine- to medium-		0
grained	1	0
Dolomite, thick-bedded,		
medium-gray to light olive-		
gray, 11my, 11nely to		
in the upper few		
in the upper lew	1	1
Inchesthis hadded alive	1	1
Ermestone, unn-beadea, onve-		
gray, oblitic, intery		3
Sandstone medium-bedded		J
vellowish-gray limy fine- to		
medium_gray, miny, mie- to	·	6
(Base of Jasper member)		Ŭ
Sandstone medium-bedded		
vellowish-gray dolomitic		
fine- to medium-		
grained		6
Sandstone, medium-bedded.		•
brownish-gray to white.		
dolomitic, fine- to medium-		
grained: grains exhibit second	_	
ary growth	1	3
Dolomite, medium-bedded.	_	
dark brownish-gray, sandy,		
finely crystalline;		
ostracods	1	0
Dolomite, very thin to medium-		
bedded, dark brownish-gray,		
dense to finely crystalline	2	3
Dolomite, medium- to		
thick-bedded, brownish-		
gray, very sandy, finely		
crystalline	3	0
Sandstone, medium- to		
thick-bedded, white, dolo-		
mitic, slightly limy, fine-		
to medium-grained	1	2

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	ΓĽ	1n
Ordovician rocks -Continued	_	
Everton formation —Continued		
Dolomite, thin-bedded.		
brownish-gray sandy		
finely crystalline		2
Sondstono modium to		U
thick hadded light brownigh		
tnick-bedded, light brownish-		
gray, dolomitic, fine- to		_
medium-grained	1	7
Dolomite, medium-bedded,		
light brownish-gray, very		
sandy, finely crystalline	1	0
Dolomite, medium-bedded.		
medium-gray to brownish-		
area senda yora finola		
gray, Sandy, Very Intery	e	0
	0	4
Dolomite, meaium-beadea,		
dark brownish-gray, finely		
crystalline	1	0
Sandstone, thin-bedded, white,		
limy, dolomitic, fine- to		
· medium-grained		4
Dolomite medium-bedded		-
bolomie, mediam-bedded,		
brownish-gray, very sandy,		
dense to linely		•
crystalline	3	0
Dolomite, thin- to medium-		
bedded, medium-gray to		
brownish-gray, dense	1	4
Sandstone, medium-bedded.		
· vellowish-gray, dolomitic,		
quartzitic fine_ to medium-		
grained: grains exhibit		
gramed, grams exindit		c
secondary growth		0
Dolomite, thick-bedded, brown	.sh-	
gray, sandy, dense to very		
finely granular	. 2	4
Dolomite, very thin to thin-		
bedded, brownish-gray, dens	е	
to very finely granular		5
Sandstone very thin to thin-	1	Ũ
badded white limy dolo-		
witte fine to medium		
milic, line- to medium-		0
grained		3
Dolomite, very thin to thin-		
bedded, brownish-gray, sand	у,	
very finely granular		4
Dolomite, medium-bedded,		
brownish-gray, sandy, very		
finely granular	4	0
Dolomite medium- to thick-	-	Ť
bodded brownish-grou		
condu yony finaly granular:		
sandy, very inlety granular,		
contains thin stringers of	-	~
nonsandy dense dolomite	. D	3
Dolomite, medium-bedded,		
brownish-gray, sandy, very		
finely granular	. 3	7
Sandstone, medium-bedded,		
white, fine- to medium-		
grained: grains exhibit		
secondary growth		8
Dolomite medium hadded		0
bounite, medium-bedded,		
prownish-gray to medium-		
gray, dense to finely		
crystalline; contains		
scattered sand		
grains	. 1	10

and outputs - Continued	<u>Ft</u>	in	
Everton formation —Continued			
Sandstone, medium-bedded,			
light brownish-gray,			
dolomitic, limy, fine- to		10	
Dolomite medium-bedded		10	
brownish-gray to medium-			
gray, dense to finely crystal-			
line; contains scattered sand	-	_	
grains	2	0	
limy fine to medium-grained			
grains exhibit secondary	,		
growth		4	
Dolomite, medium-bedded,			
brownish-gray, sandy, finely			
crystalline; contains thin stringers of popsandy yery			
finely granular dolomite	4	11	
Dolomite, medium-bedded,	-		
<ul> <li>light brownish-gray, very</li> </ul>			
sandy, very finely			
granular	1	2	
Sandstone, mealum-bedded,			
mitic fine- to medium-			
grained	1	7	
Dolomite, medium-beced,			
light brownish-gray. ery			
sandy, very finely	ຄ	0	
granularbedded	Z	0	
brownish-gray to vellowish-			
gray, dolomitic, fine- to			
medium-grained	1	0	
Sandstone, medium-bedded,			
yellowish-gray, limy, fine-		6	
Sandstone medium-bedded		0	
brownish-gray to yellowish-			
gray, dolomitic, fine- to			
medium-grained		7	
Dolomite, thin- to medium-			
sandy dense to finely			
crystalline		8	
Dolomite, thin- to medium-			
bedded, light brownish-			
gray, dense to finely crystal-			
arains	1	4	
Dolomite, thin-bedded, light	1	T	
brownish-gray, dense to			
finely crystalline		4	
Dolomite, medium-bedded,			
drav medium-			
crystalline	5	0	
Dolomite, thin- to medium-	Ũ	Ŭ	
bedded, brownish-gray to			
medium-gray, finely to			
medium-crystalline; con- tains scattered sand			
grains scattered salu	4	4	
Dolomite, medium-bedded.	-		
light brownish-gray to olive-			
gray, slightly silty, finely to			
meaium-crystalline; contains	۵	1	
contered band gramb	-1	T	28
			20

	Ft	in
Ordovician rocks - Continued		_
Everton formation —Continued		
brownish-gray limy dolo-		
mitic fine to medium-		
grained	2	6
Dolomite, thick-bedded.	2	Ŭ
medium-gray, finely		
crystalline	1	6
Sandstone, medium-bedded.	-	-
light brownish-gray, dolo-		
mitic, fine - to medium-		
grained	3	4
Dolomite, medium-bedded,		
brownish-gray, finely		
crystalline		8
Sandstone, medium-bedded,		
light brownish-gray,		
dolomitic, fine- to medium-		
grained	1	0
Sandstone, medium-bedded,		
light brownish-gray, very		
dolomitic, fine- to medium-		
grained; contains thin		~
stringers of dolomite	4	0
Dolomite, mealum-bedded,		
slightly limy finaly to		
modium arustallino: con		
tains pinkish-brown finely		
crystalline calcite	1	0
Dolomite medium-bedded	+	0
brownish-gray sandy finely		
to medium-crystalline: con-		
tains thin dolomitic and limy		
sandstone stringers	1	6
Newton sandstone member:		
Sandstone, thin- to medium-		
bedded, yellowish-gray,		
very slightly limy, very		
fine to medium-grained;		
grains exhibit secondary		
growth	4	2
Sandstone, thin- to medium-		
bedded, yellowish-gray to		
white, limy, fine- to		
medium-grained; more limy		0
at the base	4	9
(Base of Newton Sandstone member)		
light olive gray cardy		
finely crystalline	2	2
Limestone medium-bedded	2	2
olive-gray colitic dense		
to finely crystalline	2	1
Limestone, medium-bedded.	-	-
light olive-grav. sandy.		
finely crystalline		8
Sandstone, medium-bedded,		
yellowish-gray to light olive-		
gray, limy, fine- to medium-		
grained	3	0
Dolomite, medium-bedded,		
brownish-gray, sandy, finely		
to medium-crystalline		6
Limestone, medium-bedded,		
medium-gray, dense to		
finely crystalline; contains		
scattered sand		11
grains		ΤT

Ordenician realize - Occiliant	Ft	in	
Everton formation —Continued			
Sandstone, thin-bedded,			
yellowish-gray, limy,			
line- to medium-		2	
Limestone, medium-bedded.		J	
medium-gray, finely			
crystalline; contains scattered			
sand grains	1	9	
medium-grav to olive-grav			
finely crystalline; contains			
scattered sand grains	1	0	
Sandstone, medium-bedded,			
fine_ to medium_grained		٩	
Limestone, medium-bedded.		0	
medium-gray to olive-gray,			
finely crystalline; contains			
scattered sand grains	1	2	
vellowish-grav very limy			
fine- to medium-			
grained		11	
Limestone, thin- to medium-			
finely to medium			
crystalline	1	0	
Limestone, thin-bedded, olive-	-	, in the second s	
gray, sandy, finely to			
medium crystalline		4	
bedded, white limy fine-to			
medium-grained		6	
Limestone, thin- to medium-			
bedded, olive-gray, oolitoid,			
ostracods	1	Q	
Sandstone, thin- to medium-	1	U	
bedded, light-gray, limy,			
fine- to medium-		r.	
grained		5	
bedded, oolitoid, dense to			
finely crystalline; cryptozoon			
structures	2	7	
Sandstone, medium-bedded,			
limy, fine- to medium-			
grained	1	10	
Limestone, medium-bedded,			
olive-gray, sandy, slightly			
crystalline		9	
Sandstone, medium- to thick-		Ū	
bedded, yellowish-gray, very			
limy, fine- to medium-			
grainedbedded	Ŧ	4	
olive-gray, sandy, dense to			
finely crystalline		8	
Sandstone, medium- to thick-			
limy fine-to medium			
grained	2	2	
Sandstone, thick-bedded,		_	
light brownish-gray, very			
aclomitic, tine- to medium-	-		
of dolomite	1	10	

e

	Ft	in
Crdovician rocks —Continued		
Dolomite, medium-bedded		
brownish-gray, dense		9
Dolomite, medium-bedded,		
brownish-gray, sandy, finely	0	~
Crystalline	2	0
brownish-gray politic dense		
(porous where weathered		5
Sandstone, medium-bedded,		
yellowish-gray, limy, fine-		~
to medium-grained		Ð
olive-gray dense to finely		
crystalline; cryptozoon		
structures	1	11
Dolomite, medium-bedded,		
light brownish-gray, limy,		10
Sandy, finely crystalline		10
bedded medium-grav		
dense to finely crystalline;		
cryptozoon structures	1	5
Dolomite, medium- to		
thick-bedded, brownish-		
gray, sandy, sinty, nimy, finely crystalline	2	0
Dolomite, thin-bedded.	2	Ŭ
<ul> <li>yellowish-gray to light</li> </ul>		
brownish-gray, medium-		
crystalline		3
Sandstone, medium-bedded,		
dolomitic, fine- to medium-		
grained	3	0
Limestone, medium- to		
thick-bedded, medium-		
gray to only gray, contold,		
cryptozoon structures	3	0
Limestone, medium-bedded,		
olive-gray, oolitic, dense to		
finely crystalline	1	6
Sandstone, medium-bedded,		
medium-grained		6
Limestone, medium-bedded,		
light olive-gray, sandy,		
finely crystalline	1	6
Limestone, very thin to		
gray, dense	1	1
Limestone, thin- to medium-		
bedded, yellowish-gray,		
very sandy, finely		10
Crystalline		10
bedded, light olive-gray.		
dolomitic (especially in the		
lower 6 inches), finely		~
crystalline	2	S
bedded light-grav to		
yellowish-gray. dolomitic.		
limy, fine - to medium -		
grained	1	0
Limestone, thin- to medium-		
slightly dolomitic dense to		
finely crystalline	1	7
· ·		

Ordovician rocks -Continued	<u>Ft</u>	in
Everton formation —Continued		
Sandstone, thin- to medium-		
bedded, light-gray to white,		
very limy, fine- to	1	11
Limestone thin-bedded	Ţ	11
light olive-gray, very sandy.		
finely crystalline		3
Sandstone, thin- to medium-		
bedded, light-gray, very		
arained		8
Limestone, thin-bedded, light		0
olive-gray, very sandy,		
finely crystalline		4
Limestone, medium-bedded,		
crystalline: cryptozoon		
structures	2	11
Limestone, thin-bedded,	2	± ±
light-gray, very sandy,		
finely crystalline; contains		
limestone granules		2
Limestone, thin-bedded,		
crystalline		3
Limestone, thin- to medium-		U
bedded, olive-gray, dense		
to finely crystalline; con-		
tains streaks of sandy		
dolomitic limestone	4	6
bedded light olive-grav		
oolitic, dense to finely		
crystalline; contains thin		
sand stringers; cryptozoon		
structures in the upper		
18 inches	5	2
bedded light olive-grav		
dense to finely crystalline:		
contains scattered sand		
grains and sandy limestone		
stringers	4	9
Limestone, thin- to medium-		
dense to finely		
crystalline	4	4
Limestone, platy to thin-		
bedded, olive-gray, oolitoid,		
slightly dolomitic, dense to		~
Sandstone thin-bedded light-	4	Z
gray, slightly limy, guartz-		
itic; grains exhibit secondary		
growth		7
Limestone, thick-		
bedded, olive-gray		
to medium-gray,		
dense to medium-		
crystalline	1	5
Sandstone, thin-	-	Ū
bedded, light brownish-		
gray to white, slightly		
dolomitic, quartzitic,		
arained: grains orbibit		
much secondary		
arowth		8

Outerisian marks Continued	<u>FL</u>	<u></u>
Crdovician rocks -Continued		
Everton formation - Continued		
Dolomite, medium-bedded,		
light brownish-gray, limy,		
fine- to medium-crystalline;		
contains scattered sand		
grains; cryptozoon		
structures	3	0
Limestone light olive-grav		
slightly dolomitic dense to		
finely crystalline: crystoron		
structures		8
		0
Dolomite, platy to very thin		
bedded, light brownish-		
gray, finely to medium-		
crystalline	2	11
Dolomite, very thin to medium-		
bedded, medium light gray,		
finely to medium-crystalline;		
contains scattered sand		
grains	3	7
Delemite medium to thigh	0	'
Dolomite, medium- to thick-		
bedded, linely to medium-		
crystalline; contains scattered		
sand grains	1	8
Sandstone, medium-bedded,		
medium light gray, very dolo-		
mitic, fine- to medium-		
arained		6
Dolomite medium to thick-		•
bodded medium grou finely		
beuded, medium-gray, imery		
to medium-crystalline; con-		
tains scattered sand	~	0
grains	2	6
Dolomite, medium- to thick-		
bedded, light brownish-gray,		
very sandy, finely crystalline;	;	
contains thin stringers of		
dolomitic sandstone	1	5
Dolomite platy to thin-bedded.		
modium-gray finely to mediu	m -	
medium-gray, imery to media		
crystanne, contains scattered	- -	10
sand grains	2	10
Sandstone, thin-bedded, light-		
gray to white, dolomitic,		
quartzitic, fine- to medium-		
grained; grains exhibit much		
secondary growth		5
Dolomite, platy to thin-bedded.		
medium-gray, finely to		
medium-crystalline: contains		
scattered sand grains		8
Delemite this to modium		0
Dolomite, tim- to meature		
bedded, light olive-gray,		
medium-crystalline; contains		
scattered sand grains	4	1
Dolomite, thin-bedded, light-		
gray, very sandy, finely		
crystalline		3
Sandstone, thin-bedded,		
vellowish-gray, quartzitic.		
slightly dolomitic fine- to		
medium-grained: grains		
exhibit secondary growth		
estimon secondary growin,	1	2
Delemite this to address	Ţ	2
Dolomite, thin- to medium-		
bedded, light brownish-		
gray, finely to medium-		
crystalline; contains scattered	1	
sand grains	4	3

Ordovician rocks -Continued	<u>Ft</u>	in
Everton formation —Continued		
Dolomite, very thin to medium-		
bedded, medium light grav.		
finely to medium-crystalline;		
cryptozoon(?) structures	1	2
Dolomite, medium-bedded,		
light brownish-gray, finely		
to medium-crystalline; con-		
tains scattered sand		
grains	1	8
Sandstone, medium-bedded,		
light-gray, dolomitic, line-		
to mealum-grained; grains		
exhibit secondary		6
Sandstone thin- to medium-		0
bedded light_gray slightly		
dolomitic fine- to medium-		
grained: grains exhibit		
secondary growth	1	0
Dolomite, thin- to medium-	-	-
bedded, medium light gray.		•
finely to medium-crystalline;		*
contains scattered sand		
grains		6
Dolomite, thin- to medium-		
bedded, medium light gray,		
finely to medium-		
crystalline	2	8
Dolomite, thin- to medium-		
bedded, medium light gray,		
finely to medium-crystalline;		
contains scattered sand		c
grains		0
bodded light brownish-grou		
finely to medium-crystalline:		
contains scattered sand		
grains	4	6
Chert, thin-bedded, white,		
dense (tripolitic in part)		3
Dolomite, thin-bedded, light		
brownish-gray, finely to		
medium-crystalline; con-		
tains scattered sand		
ġrains		3
Sandstone, thin- to medium-		
bedded, white to light-gray,		
quartzitic, slightly dolo-		
mitic, line- to medium-		
grained; grains exhibit	1	6
Delomite thin to medium.	1	0
bedded light brownish-		
gray finely to medium-		
crystalline: contains scattered		
sand grains	3	9
Sandstone, thin-bedded, light-		
gray to light brownish-gray.		
dolomitic, fine- to medium-		
grained; grains exhibit second	-	
ary growth	1	1
Dolomite, thin- to medium-		
bedded, brownish-gray, finely		
crystalline	3	10
Dolomite, very thin to medium-		
bedded, light brownish-		
gray, linely to medium-	1	0
crystarine	1	0

	Ft	in
Ordovician rocks - Continued		
Everton formation —Continued		
Dolomite, very thin to		
hrownish-gray sandy		
finely to medium-		
crystalline	2	6
Dolomite very thin to medium-	2	U
bedded, light brownish-grav		
finely to medium-		
crystalline		6
Dolomite, very thin to medium-		
bedded, light brownish-gray,		
finely to medium-crystalline;		
contains scattered sand		
grains		6
Dolomite, thin- to medium-		
bedded, light brownish-gray,		
finely to medium-		_
crystalline	1	9
Chert, medium-bedded,		
yellowish-gray, dense		6
Dolomite, thin- to medium-		
bedded, light brownish-gray,		
linely to medium-	1	0
Delemite medium hedded	Ŧ	9
light brownish-gray finely		
to medium-crystalline: con-		
tains beds and stringers of		
light brownish-gray oolitic		
chert	4	1
Dolomite, thin-bedded, light		_
brownish-gray, finely to		
medium-crystalline; contains		
yellowish-gray oolitic dense		
chert in the upper 1 inch and		
lower 6 inches	3	7
Dolomite, thin- to medium-		
bedded, light brownish-gray,		
medium-crystalline; contains		
yellowish-gray dense and white	e	0
tripolitic chert lenses	2	0
Dolomite, thin- to mealum-bedde	ea,	
finaly to modium		
arustallino	1	11
Dolomite medium- to thick-	+	ΤT
bedded brownish-gray		
finely to medium-		
crystalline	4	4
Sandstone, medium-bedded.		
light brownish-gray, slightly		
dolomitic, quartzitic, fine-		
to medium-grained; grains		
exhibit secondary		
growth	1	6
Dolomite, medium-bedded,		
medium-gray, finely to	-	
medium-crystalline	2	10
Covered interval	2	0
Sandstone, medium-bedded,		
light brownish-gray to		
white, doiomitic, quartzitic,		
nne- to mealum-grained;		
grants exhibit secondary	6	6
Dolomite medium-bedded	0	C
brownish-gray, finely to		
medium-crystalline	3	7

	Ft	in
Ordovician rocks - Continued		
Everton formation —Continued		
Dolomite, medium-bedded,		
brownish-gray, finely to	0	0
medium-crystalline	3	3
Dolomite, medium-bedded,		
brownish-gray, sandy, finely		•
to medium-crystalline		6
Sandstone, thin-bedded, light		
brownish-gray, quartzitic,		
fine- to medium-		
grained		3
Dolomite, medium-		
bedded, brownish-gray,		
finely to medium-crystalline;		
contains scattered sand	~	~
grains	2	2
Dolomite, medium-		
bedded, brownish-gray,		
sandy, finely to medium-		~
crystalline		8
Dolomite, medium-		
bedded, brownish-gray, linely	7	
to medium-crystalline; con-		
tains scattered sand		0
grains		ð
Dolomite, thick-beaded,		
brownish-gray, linely to		
medium-crystalline; con-		
tains scattered sand		0
grains		C
brownich and finals to		
brownish-gray, intery to	2	0
Delemite this to medium	0	9
bodded medium grou to		
light brownish grou finaly		
anustallino	2	6
crystannie	4	0
Base of section 15 feet above river level.		
	350	10

I. Section of the lower part of the St. Peter sandstone and the upper part of the Everton formation in the  $NE_{4}^{1}SW_{4}^{1}$  sec. 26, T. 16N., R., 19W., Newton County, Ark. The bottom of the section is at the base of a small waterfall at an approximate altitude of 1,000 feet.

> Covered interval to top of hill . Represents most of the St. Peter sandstone interval and probably the Plattin limestone.

	<u>Ft</u>	in
Ordovician rocks:		
St. Peter sandstone (lower part only): Sandstone, thin- to medium- bedded, yellowish-gray, fine-		
to medium-grained	6	0
		<u> </u>
Everton formation (upper part only):		
Jasper member:		
Dolomite, medium-bedded, brown	nish-	
gray to olive - gray, silty (?), fir	nely	
to medium-crystalline; contain	s	
scattered sand grains; upper 1 f	oot	
is slightly more sandy and		
silty	5	3

Ordovician rocks -Continued	<u>r</u> t	
Everton formation —Continued		
Lesson mombon Continued		
Delomite medium hedded		
brownich grow to do ale		
brownish-gray to dark-		
gray, medium-crystalline;		
contains scattered sand	_	_
grains	5	0
Sandstone, medium-bedded,		
yellowish-gray to light		
brownish-gray, dolomitic,		
slightly silty and limy, fine-		
to medium-grained	1	1
Dolomite thin-bedded	-	-
modium grou to brownich		
medium-gray to prownish-		
gray, meutum-	~	
crystalline	2	10
Sandstone, thin-bedded,		
yellowish-gray, limy, fine-		
to medium-grained	2	7
Covered interval	1	8
Dolomite, thin- to medium-		
bedded light olive-grav		
to light brownish grow		
finalu to modium anustallino.		
inery to medium-crystalline;		
contains scattered sand	~	~
grains	2	6
Dolomite, thin- to medium-		
bedded, light brownish-gray,		
very finely granular; con-		
tains scattered sand		
grains	1	2
Sandstone thin-bedded	-	2
vollowich grow to light		
yenowish gray to nght		
brownish-gray, dolomitic,		
slightly limy, fine- to medium	-	_
grained		8
Sandstone, thick-bedded,		
yellowish-gray, limy, fine-		
to medium-grained; con-		
tains coarse white calcite		
crystals	1	10
Covered interval	1	0
Delemite medium to	+	0
bolomite, medium- to		
tnick-bedded, medium-		
gray to brownish-gray,		
finely to medium-crystalline;		
contains scattered sand		
grains	1	11
Dolomite, medium-		
bedded, light-gray to light		
brownish-gray, limy, sandy,		
medium-crystalline	1	0
Sandstone medium hedded	1	0
isht grow to wellowich grow		
light-gray to yellowish-gray,		
limy, dolomitic, line- to		0
medium-grained	1	2
Dolomite, very thin bedded,		
yellowish-gray, limy,		
medium-crystalline		2
Sandstone, medium-bedded,		
vellowish-grav to light-		
gray, very limy, fine- to		
medium-grained	2	4
Limestone thin-bedded	-	
light olive-gray colitic		
donso		11
Delemite this hedded light		11
Dotomite, thin-beadea, light-		
gray to light brownish-gray,		
limy, medium-crystalline		

Dedevicies seeks. Openieural	<u>Ft</u>	in	
Fuerton formation (upper part only) - Con			
Jasper formation —Continued	•		
Dolomite, thin-bedded,			
medium-gray to brownish-			
gray, finely crystalline;			
contains some white coarse		-	
calcite crystals	1	2	
Covered interval.		7	
bolomite, medium- to			
to brownish-gray finely			
crystalline	5	11	
Limestone, thin-bedded,	Ť		
light olive-gray, dense to			
finely crystalline; con-			
tains scattered sand			
grains; ostracods	1	3	
Limestone, thick-bedded,			
light olive-gray, oolitic,			
dense to finely crystalline;	1	0	
Delemite medium hedded	Ţ	9.	
medium-gray very limy			
finely to medium-crystalline:			
contains scattered sand			
grains		10	
Dolomite, thin- to medium-			
bedded, light-gray to light			
brownish-gray, limy, finely			
to medium-crystalline; con-			
tains scattered sand	1	c	
grains	T	D	
light olive-gray coliteid			
dense to finely			
crystalline	1	0	
Dolomite, thin- to medium-			
bedded, light brownish-			
gray, finely to medium-			
crystalline; contains			
scattered sand grains	1	1	
Dolomite, medium-bedded,			
very light gray to yellowish-			
medium-crystalline	1	7	
Sandstone medium-bedded	1	'	
light-gray to light brownish-			
gray, limy, dolomitic, fine-			
to medium-grained	2	7.	
Limestone, thin- to medium-			
bedded, light olive-gray,			
dense to finely crystalline;			
many ostracods. This bed			
pinches out in a short	1	0	
Limostopo thin to modium	T	0	
bedded light olive_grav			
dense to finely crystalline:			
many ostracods	1	1	
Sandstone, thin- to medium-			
bedded, very light gray to			
white, very limy, fine- to			
medium-grained	2	8	
Limestone, thin- to medium-			
olive gray colitie deep			
to finely crystalline	1	7	
to mery erystamic	1	1	

Ordovician rocks -Continued			
Everton formation (upper part only) -Con.			
Jasper formation - Continued			
Sandstone, thin- to medium-			
bedded, yellowish-gray, limy,			
fine-grained	3	0	
Limestone, discontinuous,			
thin-bedded, olive-gray,			
oolitic, dense to finely			
crystalline; contains scat-			
tered sand grains		4	

Ft in

bedded, yellowish-gray, limy, fine-grained Limestone, discontinuous, thin-bedded, olive-gray, oolitic, dense to finely	3	0
crystalline; contains scat- tered sand grains Sandstone, thin-bedded, yellowish-gray to white,		4
limy, fine-grained; lower half of unit is quartzitic (Base of Jasper member)	1	0
light brownish-gray to medium- gray, very sandy, dense to finely crystalline;		
ostracods Dolomite, thin- to medium- bedded, medium-gray to brownish-gray, dense to finely	1	11
Dolomite, thin- to medium- bedded, brownish-gray,	1	С
Dolomite, thin- to medium- bedded, brownish-gray, dense to finely crystalline; contains scattered sand		8
Dolomite, thin- to medium- bedded, medium-gray, dense to finely crystalline; con- tains scattered sand grains and scadu dolomite		10
Sandy doronne stringers Sandstone, thin- to medium- bedded, yellowish-gray to white (stained brown in spots), fine- to medium-grained;	1	5
grains exhibit much secondary growth Bottom of section at base of small waterfall.		8

69 9

<u>Ft in</u>

J. Section of the St. Peter sandstone and Everton formation on the east side of the Buffalo River about  $\frac{1}{2}$  mile downstream from Mount Hersey in the SE<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec. 25, T. 16 N., R. 19 W., Newton County, Ark. Base of section 65 feet above river level.

Ordovician rocks: Plattin limestone: Covered interval. (The contact between the Plattin limestone and the St. Peter sandstone 21 is present in this interval.) ----

	rt	111.	FU		in,
Ordovician rocks—Continued			Ordovician rocks -Continued		
St. Peter sandstone:			Everton formation —Continued		
Sandstone, medium-to			Jasper member Continued		
thick-bedded, light-gray and			Limestone, medium-bedded,		
brownish-gray, medium- to			light olive-gray, oolitic.		
coarse-grained: grains exhibit			dense to finely crystalline.		
Coandary grants exhibit	5	7	contains contraint and anning		
	0	1	contains scattered sand grains		
Sandstone, medium- to thick-			and greenish sitty patches;		
bedded, white and gray banded,			pelecypod fragments, ostracods,		
slightly limy, medium- and			and gastropods 2		2
coarse-grained; grains exhibit			Limestone, platy to thin-		
secondary growth	5	0	bedded, light olive-gray and		
Sandstone medium-bedded light-			light-gray, dense to finely		
grav to white limy medium-			crystalline: contains silty		
grained: grains exhibit secondary			nartings between the beds.		
grautht innagular hasal surfage-			sandy in the lower		
growth, friegular basar sufface-			Sandy III the lower		2
basal beds appear to fill nonows	~				3
in underlying limestone	3	4	Sandstone, medium-bedded,		
			very light gray to white,		
	13	11	limy, fine-grained 1		3
			Limestone, medium-bedded,		
			light olive-gray and light-	,	
Everton formation:			aray politic dense; con-		
Laspar member:			tains scattered sand grains		
Jasper member.			amospich cilty potchog, and		
Limestone, medium-becaed,			greenish shty patches, and		
light-gray, colitic, dense			limonite; upper 3 inches is		
to finely crystalline; con-			sandy, contains		
tains scattered sand			ostracods 1		0
grains		9	Limestone, medium-bedded,		
Sandstone, thin-bedded, white,			light brownish-gray and		
very limy, medium-grained			light olive-gray, politic.		
arsined		Δ	finaly crystallina: uppor part		
I importance this to modium		7	contains containing, upper part		
billestone, time to medium-			contains scattered sand grans,		
bedded, light-gray and light			lower part is sandy, contains		~
pinkish-gray, oolitic, dense			ostracods 1		3
to finely crystalline; contains			Sandstone, thin- to medium-		
scattered sand grains	3	2	bedded, very light gray to		
Sandstone, medium-bedded,			white, medium-grained; con-		
white, very limy, medium-			tains scattered coarse grains;		
to fine-grained: basal part			grains exhibit secondary		
contains small flat limestone			arowth		6
nobbles		9	Limestone medium-bedded		Ŭ
Limestane light group celitie		0	light grow to yory light grow		
Limestone, light-gray, contro,			ngni-gray to very ngni gray,		
dense to finely crystalline;			sandy, collic, dense to linely		
contains scattered sand			crystalline; ostracods in upper		
grains		4	1 foot 2 inches; lower 7 inches		
Limestone, light-gray to			contains only scattered sand		
white, sandy, dense to finely			grains 1		8
crystalline	1	1	Sandstone, medium-bedded,		
Sandstone, light-gray to white.			very light gray to white, very		
very limy fine- to medium-			limy fine- to medium-		
arained		9	aminod 1		0
Coursed intermed	2	6	I imposing this hadded		0
	5	0	Limestone, thin-bedded,		
Limestone, meaium-beadea,			light-gray and light brownish-		
light-gray, dense to finely			gray, sandy; grades downward		
crystalline; contains small			into a limy sandstone 1	Ł	8
flat, greenish-gray silty		•	Limestone, medium-bedded, light		
and sandy limestone pebbles;			bluish-gray, slightly oolitic, dens	se	
pelecypod fragments and			to finely granular; contains scat-		
gastropods.	2	4	tered sand grains	>	0
Limestone medium-	2	-	Conditions modium hodded	-	Ŭ
boddod light group			vollewich mean line fin		
bedded, fight-gray,			yenowish-gray, hmy, tine-		0
and light olive-gray,			to medium-grained		8
oolitic, dense to finely			Limestone, medium-bedded,		
crystalline; upper 2 inches			medium light gray to very		
sandy and contains small			light gray, oolitic, dense		
flat oolitic limestone			to medium-crystalline; con-		
pebbles		10	tains greenish-gray silt partings		
Covered interval		5	and limonite; ostracods.	2	1
		-			

	Ft	in	
Crdovician rocks —Continued			
Jasper member -Continued			
Limestone, medium- to thick-			
bedded, light brownish-			
gray to very light gray,			
oolitic, dense to finely			
crystalline; contains finely			
to medium-crystalline calcite;	3	Δ	
Limestone medium-bedded	. ၂	T	
medium-gray to light-gray.			
light olive-gray, oolitoid,			
dense to finely crystalline;			
contains scattered sand	-		
grains; ostracods	3	0	
Limestone, mealum-bedded,			
grav finely crystalline.			
contains scattered sand			
grains and stringers			
of sandy limestone;			
ostracods	4	0 .	
Limestone, medium-bedded,		, r	
light-gray and light brownish-			
crystalline: contains scattered			
sand grains	2	5	
Sandstone, thin-bedded, light-			
gray, medium-grained; grains			
exhibit secondary growth	2	3	
Limestone, medium-bedded,			
olive-gray colitic finely			
to medium-crystalline: con-			
tains scattered sand grains;			
ostracods	2	0	
Sandstone, medium-bedded,			
<ul> <li>yellowish-gray, limy, fine-</li> </ul>			
to medium-grained; lime			
upward	2	9	
Limestone, medium-bedded,	2		
very light gray to yellowish-			
gray, oolitoid, finely to			
medium-crystalline;			
Ostracods		11	
vellowish-gray very limy			
fine- to medium-grained	3	3	
(Base of Jasper member)			
Dolomite, medium-bedded,			
gray, dense to finely			
crystalline; very sandy in			
3 inches (This bed pinches			
out 150 feet to the west.)	1	5	
Sandstone, thin- to medium-	-	-	
bedded, light-gray, slightly			
limy, quartzitic, medium-			
grained; grains exhibit second-	• ,	0	
ary growth	T	a	
light-grav and gravish-brown			
dolomitic, fine- to medium-			
grained; contains stringers			
of gray dense dolomite	5	4	
Sandstone, medium-bedded,			
medium-grained		6	

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Craovician rocks - Continued		
Everton formation -Continued		
Sandstone, medium-		
bedded, light brownish-		
gray, dolomitic,		
fine- to medium-		
grained	1	10
Dolomite, medium-bedded,	-	
brownish-gray, finely to		
medium-crystalline; con-		
tains scattered sand		
grains		7
Sandstone, medium-bedded,		
light-gray to brownish-		
gray, dolomitic, medium-		
grained	3	2
Dolomite, medium-bedded,		
light-gray and gravish-brown.		
sandy, finely crystalline; sand		
content increases		
downwa rd	1	10
Sandstone medium-bedded	1	10
drau-brown dolomitic fine-		
to modium grained	1	11
Delemite medium bedded	1	11
Dolomite, mealum-beadea,		
gray-brown, sandy, dense to		0
linely crystalline		б
Dolomite, medium-bedded, gray	-	
brown, dense to finely		
crystalline; contains white		
calcite crystals		11
Sandstone, medium-bedded,		
very light gray to white,		
limy, medium-grained		10
Dolomite, medium-bedded,		
dark brownish-gray, finely		
to medium-crystalline; con-		
tains scattered sand		
grains	1	1
Sandstone, medium-bedded,		
very light gray, fine- to		
medium-grained; secondary		
growth		7
Sandstone, medium-bedded.		
brownish-gray, dolomitic.		
medium-grained	2	7
Dolomite medium-bedded	2	
brownish-gray dense to		
finely crystalline: contains		
coarse calcite crystals		11
Dolomite medium-bedded		**
light brownish-gray		
sandy finaly crystal		
line: contains stringers		
of your light grow to		
of very light gray to		
white himy sandstone		
and brownish-gray	~	~
dense dolomite	5	2
Dolomite, medium-bedded,		
light brownish-gray,		
limy, finely to medium-		~
crystalline	1	6
Dolomite, medium-bedded,		
brownish-gray, sandy,		
dense to finely crystalline;		
contains stringers of		
dense dolomite and		
medium-grained		
sandstone	4	3

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Ondevicion pooks - Continued	<u>Ft</u>	in
Everton formation-Continued		
Dolomite, medium-bedded,		
light brownish-gray to		
brownish-gray, sandy, dense to finely crystal-		
line: contains stringers		
of nonsandy dolomite with		
coarsely crystalline		
calcite	5	0
Dolomite, thin- to medium-		
grav to pale-brown, very		
sandy, dense to finely		
crystalline	2	6
Dolomite, thin- to medium-		
bedded, brownisn-Dlack, finaly to medium-crystalline:		
contains scattered sand		
grains	1	1
Sandstone, thin-bedded,		
light-gray to yellowish-		
gray, limy, fine- to		
exhibit secondary		
growth		6
Dolomite, thin- to medium-		
bedded, light brownish-		
gray to pale-brown, very		
crystalline	1	0
Dolomite, thin- to medium-	•	Ũ
bedded, light olive-gray,		
sandy, finely crystalline;		
contains stringers of nonsandy	2	11
Sandstone thin-bedded, white	4	11
limy, fine- to medium-		
grained; grains exhibit		_
secondary growth		3
bedded medium-gray to		
brownish-gray, sandy, finely		
crystalline; sand content		
decreases downward	1	11
Sandstone, medium-bedded,		
delemitic medium-grained		
grains exhibit secondary		
growth	2	0
Sandstone, medium-bedded,		
light brownish-gray, dolo-	3	5
Dolomite, thin-bedded, light-grav.	0	5
dense to finely crystalline; con-		
tains coarse calcite crystals.		5
Dolomite, thin-bedded, light-		
gray, sandy, dense to finely		
creases downward	1	4
Dolomite, medium-bedded,		
light-gray to gray, very		
finely granular to finely		
crystalline; contains medium-	5	7
Dolomite, medium-bedded.	0	
light-gray and light olive-		
gray, very finely granular		
to finely crystalline; contains	Δ	10
coarsery crystannie carche	-1	10

Crdovician rocks-Continued		
Everton formation - Continued		
Dolomite, medium-bedded,		
light brownish-gray, finely		
crystalline; contains coarse		
calcite crystals	3	3
Dolomite, medium-bedded,		
very dark gray, dense	1	0
Dolomite, medium-bedded,		
dark-gray to gray, sandy,		
finely crystalline dolomite;		
contains scattered sand		
grains and thin sandy dolo-		
mite stringers		6
Sandstone, medium-bedded,		
light brownish-gray, dolo-		
mitic, medium-grained	1	3
Sandstone, medium-bedded,		
very light gray, limy, fine-		
to medium-grained; grains		
exhibit secondary		
growth	2	0
Dolomite, medium-bedded,		
brownish-gray, finely crystal-		
line; contains coarse calcite		
crystals		8
Sandstone, medium-bedded,		
light-gray, dolomitic,		
medium-grained; grains		
exhibit secondary		
growth	1	0
Sandstone, medium-bedded.		
light-grav to very light		
grav. limy. fine- to medium-		
grained; grains exhibit second	_	
ary growth	2	0
Sandstone, medium-bedded,		
light-gray to very light gray.		
dolomitic, fine- to medium-		
grained	3	0
Sandstone, medium-bedded,		
very light gray to light-gray,		
dolomitic, slightly limy, fine-		
to medium-grained	4	6
Newton sandstone member:		
Sandstone, medium-bedded, ver	v	
light gray to white, limy.	5	
slightly dolomitic; fine- to		
medium-grained; grains		
exhibit secondary		
growth	3	11
Sandstone, medium-bedded.	-	
very light gray to white.		
slightly limy fine- to		
medium-grained: grains		
exhibit secondary		
growth	4	9
(Base of Newton sandstone member)	-	_
Dolomite, medium-bedded.		
light brownish-gray, very		
sandy, finely granular to		
finely crystalline	2	6
Dolomite, medium-bedded.	_	_
light-gray and light brownish-		
grav, very sandy finely to		
medium crystalline	2	3
Dolomite, medium-bedded	-	-
brownish-grav, finely		
granular to finely		
crystalline		6
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and the operationed	<u>Ft</u>	in
Eventor formation—Continued		
Sandstone, medium-		
bedded, light-gray to		
white, medium-grained;		
contains calcite		
crystals	2	3
Dolomite, medium-bedded,		
medium light gray, sandy,		
finely to medium-crystalline;		
contains calcite	3	7
Dolomite medium-bedded	J	(
medium light gray, limy,		
finely to medium-		
crystalline	1	0
Dolomite, medium-bedded,		
light-gray to brownish-		
gray, sandy, limy, finely		
to medium-crystalline	5	0
Dolomite, medium-bedded,		
light-gray, slightly limy,		
intely to medium-crystalline;		•
as much as 1 foot		
thick	5	0
Dolomite, medium - to thick-	Ŭ	Ŭ
bedded, light-gray to gray,		
finely to medium-crystalline;		
contains sandy dolomite beds		
as much as 1 foot		
thick	5	0
Dolomite, medium-bedded,		
light-gray to light olive-		
gray, limy, finely to		
tains a sandy dolomite bed		
1 foot thick slightly above		
the middle	4	0
Dolomite, medium-bedded.		
light brownish-gray to gray,		
sandy, finely to medium-		
crystalline; nonsandy in		
upper 1 foot	4	5
Dolomite, medium-bedded,		
light-gray to light brownish-		
gray, sandy, finely to	Б	0
Dolomite this to medium-	J	0
bedded, light-gray and		
light brownish-gray, sandy.		
finely to medium-crystalline;		
nonsandy in lower		
1 foot	4	7
Dolomite, medium-bedded,		
light-gray and light brownish-		
gray, very sandy in part, finaly to modium		
crystalline	Æ	0
Sandstone, medium- to	J	0
thick-bedded. light-		
gray to light brownish-		
gray, dolomitic, slightly		
limy, medium-		
grained	2	8
Dolomite, thin-bedded, light		
brownish-gray, finely to		4
medium-crystamme		4

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Crdovician rocks-Continued		
Everton formation-Continued		
Sandstone, medium-to		
thick-bedded light-		
anow to light brownigh		
gray to fight brownish-		
gray, dolomitic, slightly		
limy, medium-grained	2	0
Dolomite, very thin to medium-		
bedded light-gray to brownish		
area condu finalu to modium		
gray, sandy, linely to medium-	•	
crystalline; sand content		
increases upward	3	8
Dolomite, thin- to medium-		
bedded light-gray finely		
to modium arustallinot con		
to medium-crystalline; con-		
tains scattered sand		
grains	5	0
Dolomite, medium-bedded.		
light_gray finely to		
ingin-gray, intery to		
medium-crystalline; contains		
. scattered sand		
grains	15	1
Sandstone very thin bedded.		
light-grow to light olive-		
ingine-gray to fight onve-		
gray, dolomitic, fine- to		
medium-grained		3
Dolomite, medium-bedded,		
light-gray to light olive-gray		
finaly to modium crystalline:		
imery to medium-crystatime,		
. contains scattered sand grains,		
wavy bedding; cryptozoon(?)		
structures	4	7
Dolomite, medium-bedded.		
light brownish-gray finely		
to modium orustalling: con		
to medium-crystalline, con-		
tains a silty bed 18 inches		
from top	4	8
Dolomite, very thin to medium-		
hedded brownish-gray finely		
to modium emotalling	0	10
to medium-crystanine	4	10
Sandstone, very thin to medium-		
bedded, brownish-gray,dolo-		
mitic, medium-grained	1	2
Dolomite very thin to		
modium boddod brownish.		
medium-bedded, brownish-		
gray, finely to medium-		
crystalline; contains		
scattered sand		
• grains	1	0
Dolomite medium-		
bodded light olive grou		
bedded, light onve-gray,		
finely to medium-		
crystalline	2	10
Dolomite, medium-bedded,		
light olive-gray, very sandy.		
finely to medium-		
	1	ຄ
crystalline	T	4
Dolomite, thin-bedded,		
brownish-gray, finely to		
medium-crystalline; sandy		
in lower 6 inches	2	3
Dolomito modium hodded	2	5
Dotomite, medium-bedded,		
light olive-gray, finely to	-	
medium-crystalline	3	8
Dolomite, medium-bedded,		
light olive-grav, finely		
to medium-crys-		
tallino	1	2
Lalling	1	0

Ordovician rocks - Continued		
Everton formation - Continued		
Dolomite medium-bedded		
very light gray very sandy		
finely to medium-		
crystalline	1	0
Dolomite, medium-bedded.	-	•
light olive-gray, finely to		
medium-crystalline	2	9
Dolomite, medium-bedded.	-	
medium-gray to light-gray.		
finely to medium-		
crystalline	1	0
Dolomite, medium-bedded.		
medium-grav to light-grav.		
sandy, finely to medium-		
crystalline	1	0
Dolomite, medium-bedded.		
medium-grav to light-grav.		
finely to medium-		
crystalline	3	0
Sandstone, medium-bedded.		
light-gray to white, dolo-		
mitic, fine- to medium-		
grained; upper 3 inches is		
sandy dolomite	3	6
Dolomite, medium-bedded.		
light-gray, finely to medium-		
crystalline; contains scat-		
tered sand grains	1	9
Dolomite, medium-bedded.		
light-gray to light olive-		
gray, finely to medium-		
crystalline; contains scattered		
sand grains	2	0
Sandstone, medium-bedded,		
very light gray to white,		
dolomitic, medium-		
grained	1	0
Dolomite, medium-bedded,		
light-gray to light olive-		
gray, finely to medium-		
crystalline; contains scat-		
tered sand grains	2	0
Sandstone, medium-bedded,		
light-gray to white, dolo-		
mitic, quartzitic, fine-to		
medium-grained; contains		
thin dolomite stringers	2	1
Dolomite, medium-bedded,		
light olive-gray, finely to		
medium-crystalline; con-		
tains scattered sand		
grains	1	4
Sandstone, medium-bedded,		
light-gray to white, dolomitic,	,	
quartzitic, fine- to medium-		
grained	2	0
Dolomite, medium-bedded,		
brownish-gray to light		
brownish-gray, sandy, finely		
to medium-crystalline; sand		
content increases		
upward	5	0
Sandstone, medium-bedded,		
brownish-gray to white,		
dolomitic, fine- to medium-		
grained	1	8

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	<u>Ft</u>	in
Ordovician rocks -Continued		
Everton formation -Continued		
Dolomite, medium-bedded,		
light brownish-gray to		
brownish-gray, linely		0
	1	0
Dolomite, medium-bedded,		
light brownish-gray to grayish	-	
brown, sandy, linely crystal-		
line; becomes increasingly	0	
sandy downward	3	4
Sandstone, very thin bedded,		
very light gray to white,		
limy, fine- to medium-		0
grained		6
Dolomite, medium-bedded,		
light brownish-gray to grayish	-	
brown, finely crystalline; con-	-	
tains scattered sand		
grains	1	2
Dolomite, medium-bedded,		
light brownish-gray to dark		
. brownish-gray, finely		
crystalline; contains a 2-inch		
dolomitic sandstone stringer		
near the top	5	0
Dolomite, medium-bedded,		
light-gray to white, sandy,		
finely to medium-crystalline;		
sand content increases		
downward	1	0
Sandstone, medium-bedded,		
light-gray to white, guartzitic		
fine- to medium-		
grained.		6
Dolomite, medium-bedded,		
light brownish-gray, finely		
to medium-crystalline; con-		
tains scattered		
sand	4	3
Dolomite, medium-bedded.		
brownish-grav to light olive-		
gray, finely to medium-		
crystalline	5	0
Dolomite, medium-bedded.		
medium-gray, finely to		
medium crystalline	5	0
Dolomite, medium-bedded.		
brownish-gray to light		
brownish-gray, finely to		
medium-crystalline: lower		
4 inches sandy to very		
Sandy	5	0
Sandstone, medium-bedded.		
very light gray to white.		
fine- to medium-grained:		
lower 2 inches is		
dolomitic	5	0
Dolomite, medium- to	-	
thick-bedded, medium		
dark grav to brownish-		
gray finely granular		
finely to medium-		
crystalline	4	6
Sandstone thin_ to		
medium-bedded white		
dolomitic medium-		
arained	2	4
gramed	-	

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	Ft	in		<u>r</u> t	
Ordovician rocks-Continued		_	Ordovician rocks -Continued		
Everton formation-Continued			Everton formation — Continued		
Dolomite, very thin to thin-			Dolomite, thin- to medium-		
bedded, light olive -gray to			bedded, medium-gray to		
light-gray, finely granular			light olive-gray, sandy,		
to finely crystalline	2	7	finely granular to finely		
Dolomite, medium-bedded.			crystalline	4	0
dark-grav to brownish-			Sandstone, medium-bedded,		
gray finely granular to			light-gray to yellowish-		
finely crystalline	4	1	gray, dolomitic, fine- to		
Dolomite medium-bedded.			medium-grained		8
medium dark grav to			Dolomite, thin- to medium-		
brownish-gray very finely			bedded, light-gray and light		
granular to finely			brownish-gray, very finely		
crystalling	5	0	granular to finely		
Dolomita medium-	Ũ	Ũ	crystalline	3	2
boddod modium-gray			Dolomite, medium- to thick-		
to brownish-gray sandy			bedded, light-grav to brownish	-	
finaly to modium-			grav, very finely granular		
anustallino	1	8	to finely crystalline: sandy		
Delemite modium-boddod	-	0	in lower 18 inches	4	0
modium grou to brownish			Dolomite, medium-bedded.		
grou finaly to provinsi-			light-gray and light brownish-		
gray, intervito medium-	3	۰ ۹	aray finely to medium-		
Crystalline	6	6	crystalline: sandy in lower		
Covered Interval	0	0	18 inches	5	0
Dolomite, platy, light-gray to			Sandstone medium-bedded	Ũ	Ŭ
light brownish-gray, linely			white quartzitic fine-to		
granular to finely	1	Б	medium-grained: dolomitic		
crystalline	T	0	in the upper 4 inches		10
Sandstone, platy to thin-			Dolomito modium-bodded		10
bedded, white, dolomitic,		C	light-grow (orange-mottled)		
medium-grained		0	condu donce to finely crustal.	_	
Dolomite, platy to medium-			line: cand content degreeses	-	
bedded, light-gray to light			inte, sand content decreases	Λ	7
brownish-gray, sandy, finely			Delemite modium to thick	• -	'
granular to finely		0	bolded evenue area mottled		
crystalline	1	3	bedded, orange-gray motued		
Dolomite, medium- to thick-			fight-gray and fight office-gray	,	
bedded, medium- to dark-			very finely granular to finely	2	
gray, very finely granular			Crystalline	5	2
to finely crystalline; 6-inch	_		Dotomite, meatum - to thick -		
sandy dolomite bed near middl	.e		bedded, light-gray to light olive	-	
of unit	4	1	gray, dense to inely	5	0
Dolomite, medium- to			Crystalline	5	C
thick-bedded, brownish-			Base of Section of feet above river level.		
gray, finely to medium-	E	0		308	0
crystalline	D	0		0.20	C

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